ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Physical Work, Self Potential & IP / Magnetics Survey - LH Property

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PROPERTY NAME: LH Property

CLAIM NAME(S) (on which work was done): 514022, 1022800 and 1022814

COMMODITIES SOUGHT: Au, Ag, Cu

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 082FNW212

MINING DIVISION: Slocan
NTS / BCGS: NTS 084F/14 / BCGS 082F083, 084 and 094
LATITUDE: _____49____° _____06_____' _____00____"
LONGITUDE: ____117___° _____48_____' _____00_____" (at centre of work)
UTM Zone: 475,780 EASTING: 5,526,720 NORTHING:

OWNER(S): International Bethelehem Mining Corp

MAILING ADDRESS: 2489 Bellevue Avenue,West Vancouver, BC V7V 1E1

OPERATOR(S) [who paid for the work]: Magnum Goldcorp Inc.

MAILING ADDRESS: 2489 Bellevue Avenue,West Vancouver, BC V7V 1E1

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)
Rossland group, Middle Jurassic, calc-silicate, Induced Potential, Self Potential, Magnetics

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
16,738,

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	5 line km	1022800	5000
Electromagnetic			
Induced Polarization	5 line km	1022800	15000
Radiometric			
Seismic			
Other	SP 3 line km	1022800	15000
Airborne			
GEOCHEMICAL (number of samples analysed for …)			
Soil			
Silt			
Rock			
Other	Water Survey	514022, 1022800, 1022814	4500
DRILLING (total metres, number of holes, size, storage location)			
Core	Core Storage Crescent Valley	1022800	1500
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)	5 line km	1022800	2378
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail	5 km	514022, 1022800, 1022814	19496
Trench (number/metres)			
Underground development (metres)			
Other	permitting compilation	1022800	26231.56
		TOTAL COST	85195.56

ASSESSMENT REPORT

PHYSICAL WORK, SELF POTENTIAL & IP / MAGNETICS SURVEY

LH PROPERTY

Silverton, B.C.

Slocan Mining Division

Latitude: 49° 06’ 00”, LONG 117° 48’ 00”
Mapsheet 084F/14
TRIM 082F083, 084 and 094

for:

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Dated: December, 2014

1.0 SUMMARY

The LH Property is located approximately 7.0 km south of the village of Silverton, east of Slocan Lake. The Property lies on NTS map 82F/14W (BC TRIM maps 082F083, 084 and 094) in the Slocan Mining Division of southeastern British Columbia. The LH Property consists of six contiguous Mineral Titles On-Line (MTO) tenures (2,607.06 ha) and one non-contiguous, Legacy Claim (257280; 20.13 ha), totaling 2,627.19 ha. These tenures partially overlap nineteen crown granted mineral claims, totaling 335.69 hectares

The LH property is situated in the Omineca Crystalline Belt of southeastern British Columbia. The stratigraphy consists of Upper Triassic sedimentary to Lower Jurassic volcanic to volcaniclastic strata comprising an interpreted roof pendant within the Middle Jurassic Nelson Batholith

Detailed mapping by Noranda (1985 – 1988) documented a series of alteration zones developed within the large package of pyroclastics forming the ridge along the west side of the Fingland Creek drainage. On the east side, exposures of tuff and agglomerate are relatively unaltered, however, alteration progressively increases to the west, distinguished by an increase in biotite hornfels alteration and chlorite - hornblende alteration with local potassic and sericite alteration. On the west side, the intensity of alteration increases, comprising zones of well-developed biotite hornfels and pyroxene and epidote calc-silicates in the southwest portion of the ridge. In addition, pervasive silicification throughout a wide central zone cores the steep ridge running approximately north-south. This pervasively silicified zone is important as it is the primary host to sulphides associated with anomalous gold mineralization.

Previous work has resulted in the interpretation that the LH Property is host to two styles of gold mineralization (Ash 2014). The first style of mineralization is mesothermal, gold-bearing quartz vein mineralization as evidenced by minor production on two historical underground levels in the former LH Mine. The second style is evidenced by the Ridge Zone mineralization, interpreted to represent gold-bearing, skarn style mineralization in which gold occurs with pyrrhotite, arsenopyrite and minor copper within silicified calc-silicate altered host rocks. This style of mineralization is interpreted to have greater potential for identification of a larger volume of mineralized rock, although with significantly lower grades than epithermal vein mineralization. Skarn-style mineralization is interpreted to be related narrow felsic dykes originating from the underlying Nelson Batholith.

The 2014 program consisted of an initial compilation of work available from previous exploration programs, followed by physical work to facilitate quad access to the Crown Granted Mineral Claims. Subsequent work included further physical work (i.e. line-cutting to prepare the survey grid) and ground geophysical surveying comprised of Self-Potential (SP) and an Induced Potential (IP) / Magnetics survey.

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2.0 INTRODUCTION

The LH Property is located approximately 7.0 km south of the village of Silverton, east of Slocan Lake (Fig. 1 and 2). The Property lies on NTS map 82F/14W (BC TRIM maps 082F083, 084 and 094) in the Slocan Mining Division of southeastern British Columbia. The LH Property consists of six contiguous Mineral Titles On-Line (MTO) tenures (2,607.06 ha) and one non-contiguous, Legacy Claim (257280; 20.13 ha), totaling 2,627.19 ha (Fig. 3). These tenures partially overlap nineteen crown granted mineral claims, totaling 335.69 hectares

The LH property is situated in the Omineca Crystalline Belt of southeastern British Columbia (Fig. 4). The stratigraphy consists of Upper Triassic sedimentary to Lower Jurassic volcanic to volcaniclastic strata comprising an interpreted roof pendant within the Middle Jurassic Nelson Batholith (Fig. 5).

Detailed mapping by Noranda (1985 – 1988) documented a series of alteration zones developed within the large package of pyroclastics forming the ridge along the west side of the Fingland Creek drainage (Fig. 6). On the east side, exposures of tuff and agglomerate are relatively unaltered, however, alteration progressively increases to the west, distinguished by an increase in biotite hornfels alteration and chlorite - hornblende alteration with local potassic and sericite alteration. On the west side, the intensity of alteration increases, comprising zones of well-developed biotite hornfels and pyroxene and epidote calc-silicates in the southwest portion of the ridge. In addition, pervasive silicification throughout a wide central zone cores the steep ridge running approximately north-south. This pervasively silicified zone is important as it is the primary host to sulphides associated with anomalous gold mineralization.

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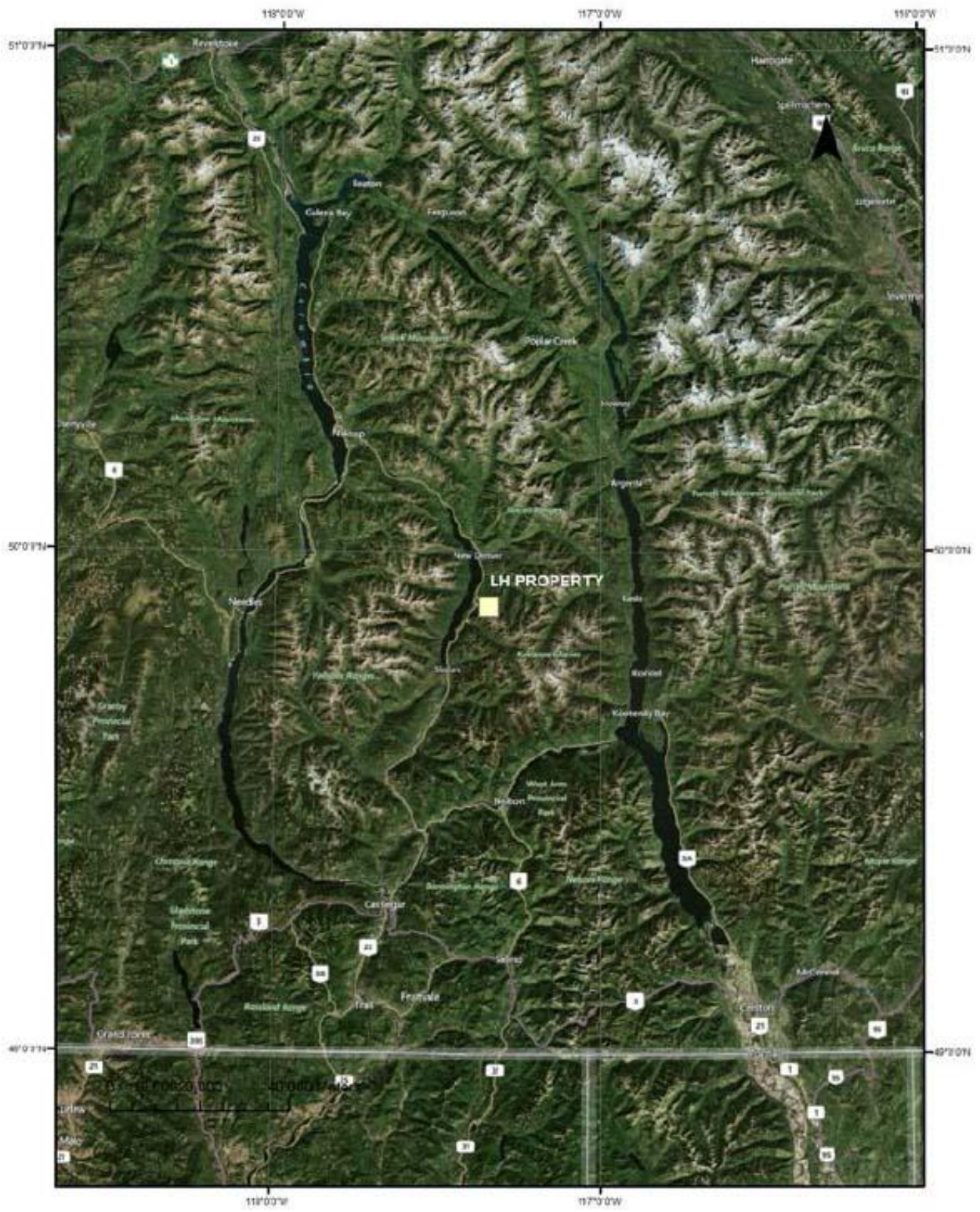


Figure 1 – Regional Location Map

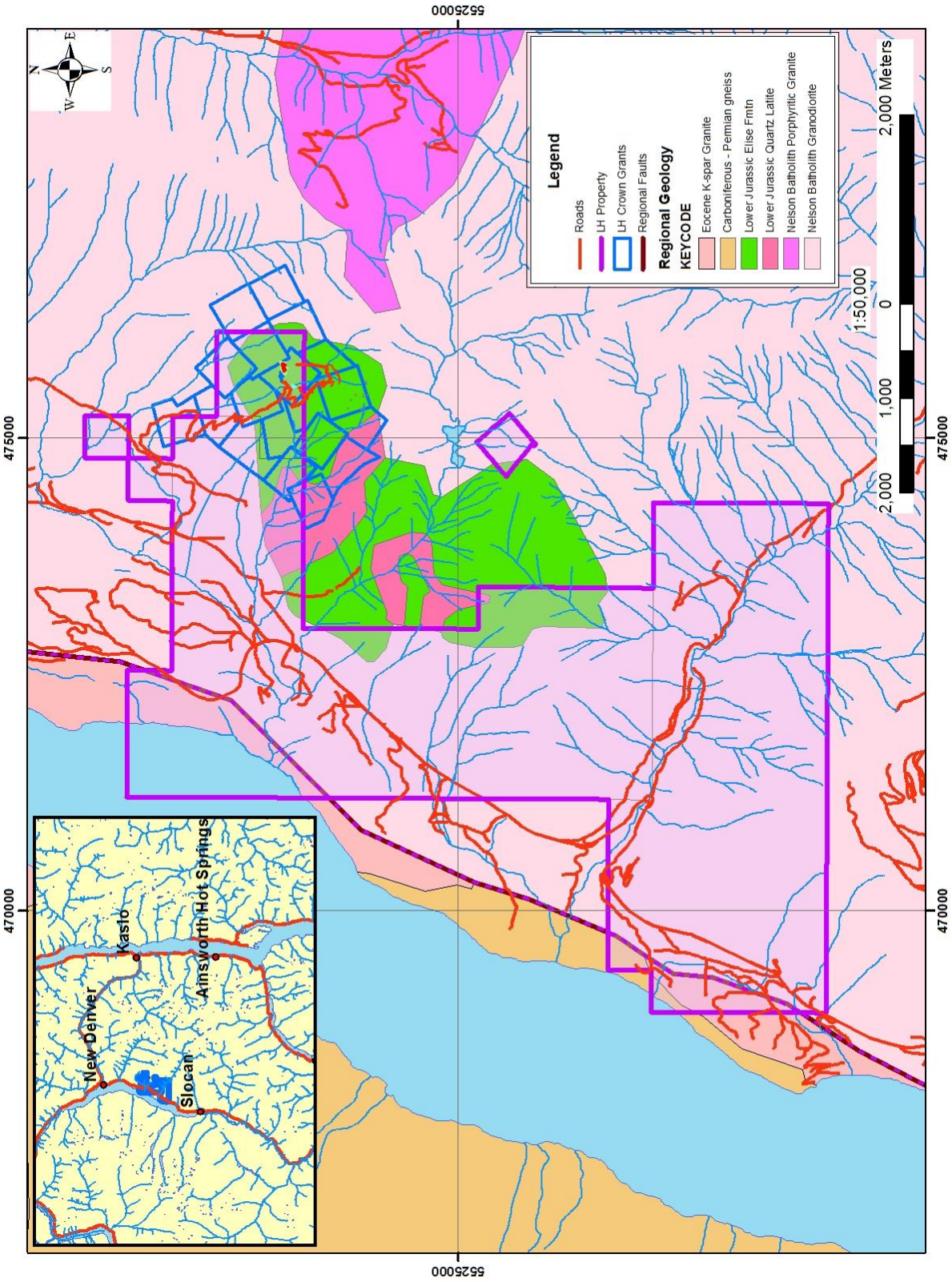


Figure 2 – Property Location Map

3.0 LOCATION AND ACCESS

The LH Property is located approximately 7.0 km south of the village of Silverton, east of Slocan Lake (Fig. 1 and 2). The Property lies on NTS map 82F/14W (BC TRIM maps 082F083, 084 and 094) in the Slocan Mining Division of southeastern British Columbia. The Property location is shown on Figure 1.

The property can be accessed by traveling south for 1.8 km from the village of Silverton via paved Highway 6 to the Red Mountain Road on east side of the highway. Follow Red Mountain Road northeast for 1.6 km to the Hewatt Mine Road (east side of road). Follow Hewatt Mine Road approximately 5.5 km southeast to rehabilitated LH Mine Road along Fingland Creek (note: take right fork at each junction). Follow rehabilitated 4-wheel drive mine road approximately 2.8 km to 2014 area of activity on the LH Property.

4.0 PHYSIOGRAPHY AND CLIMATE

The following has been taken from Kowalchuk (2013).

Climate

"The climate is typical of the Central Kootenay Region, with cool winters and warm summers. The nearest weather station is at New Denver, approximately 14 km to the north, at an elevation of 560 m above mean sea level (Amsl). The average January temperature in New Denver is -0.3° C, with a record low of -21° C. The average August temperature is 28° C, with a record high of 37° C. Precipitation throughout the year is relatively constant at 60 to 75 mm per month and averages 880 mm per annum. Note that the elevation of the main (1025 Level) portal is approximately 500 m higher than at the weather station, so precipitation can be expected to be somewhat higher than at New Denver, with annual snowfall of three to four m (Ash 2014).

The Kootenays have a typical interior mountain climate with cold snowy winters, collecting an average winter snowpack of 5 to 10 metres. The spring freshet, caused by melting snowpack and spring rains can cause seriously high waters in the streams and occasional flooding. The summers are hot with temperatures into the high 20's to low 30's Celsius. Summers are generally dry with modest amounts of rainfall. The exploration season is limited to the summer months of June to October".

Physiography

The property is located in rugged terrain with elevations ranging from 560 m along the east shore of Slocan Lake to 2,120 m amsl at the ridge top separating the headwaters of Fingland Creek to the north from the Enterprise Creek drainage to the south. Slopes are frequently greater than 35°, with a series of cliff bands along either side of Fingland Creek.

Within the predominantly coniferous forest cover, undergrowth is comprised of a mix of Devil's Club, Stinging Nettles and Slide Alder. Coniferous tree species are comprised mainly of Western Hemlock, Western Red Cedar, Douglar Fir and Larch. Poplar and Birch can be found in clearings and wetter locations. Engelmann Spruce and Alpine Fir are found at higher elevations.

5.0 CLAIM STATUS

The LH Property (Fig. 3) consists of six contiguous Mineral Titles On-Line (MTO) tenures (2,607.06 ha) and one non-contiguous, Legacy Claim (257280; 20.13 ha), totaling 2,627.19 ha (Table 1). These tenures partially overlap nineteen crown granted mineral claims, totaling 335.69 hectares (Table 2). Although the Crown Grants are partially overlain by competitors MTO tenures, they have precedence for the rights granted by each individual Crown Grant.

Tenure Number	Claim Name	Issue Date	Good To Date	Area (ha)
257280		1970/jul/06	2015/jul/06	20.13
393214	MARGIE #1	2002/may/03	2018/aug/20	25.00
514022		2005/jun/06	2018/aug/20	1353.12
514023		2005/jun/06	2018/aug/20	1083.27
1022800	LH	2013/oct/03	2018/aug/20	104.06
1022814	LH ACCESS	2013/oct/04	2018/aug/20	20.81
1031038	ROAD1	2014/sep/18	2015/sep/18	20.81
				2627.19

Crown Granted Lots and Land Titles

Crown Grant	Lot #	Date Granted	Tax Date	Size (ha)
Douglas	14923	March 26, 1942	July 2, 2013	18.75
Grief Fraction	14924	March 26, 1942	July 2, 2013	18.75
Pest Fraction	14925	March 26, 1942	July 2, 2013	18.75
Baby Ruth	2229	August 1, 1916	July 2, 2013	17.4
Harlem	6911	Nov. 27, 1905	July 2, 2013	17.4
CB	5740	Nov. 17, 1902	July 2, 2013	17.4
Arkoa	14516	c. 1931	July 2, 2013	18.75
Colfax	14515	c. 1935	July 2, 2013	18.75
Summit	6909	Nov. 27, 1905	July 2, 2013	17.4
LH	5738	Nov. 27, 1905	July 2, 2013	17.4
Camden	5739	Nov. 17, 1902	July 2, 2013	17.4
Harlem Fraction	8976	Sept. 9, 1936	July 2, 2013	16.31
Commander	5736	June 12, 1935	July 2, 2013	16.31
Congo No. 2	5734	Dec. 23, 1907	July 2, 2013	16.31
Bristol	5735	Dec. 23, 1907	July 2, 2013	16.31
Junior	14926	March 26, 1942	July 2, 2013	18.75
Fred	14927	March 26, 1942	July 2, 2013	18.75
St	6908	Nov. 27, 1905	July 2, 2013	17.4
Basin	6910	Nov. 27, 1905	July 2, 2013	17.4
			Total	**335.69**

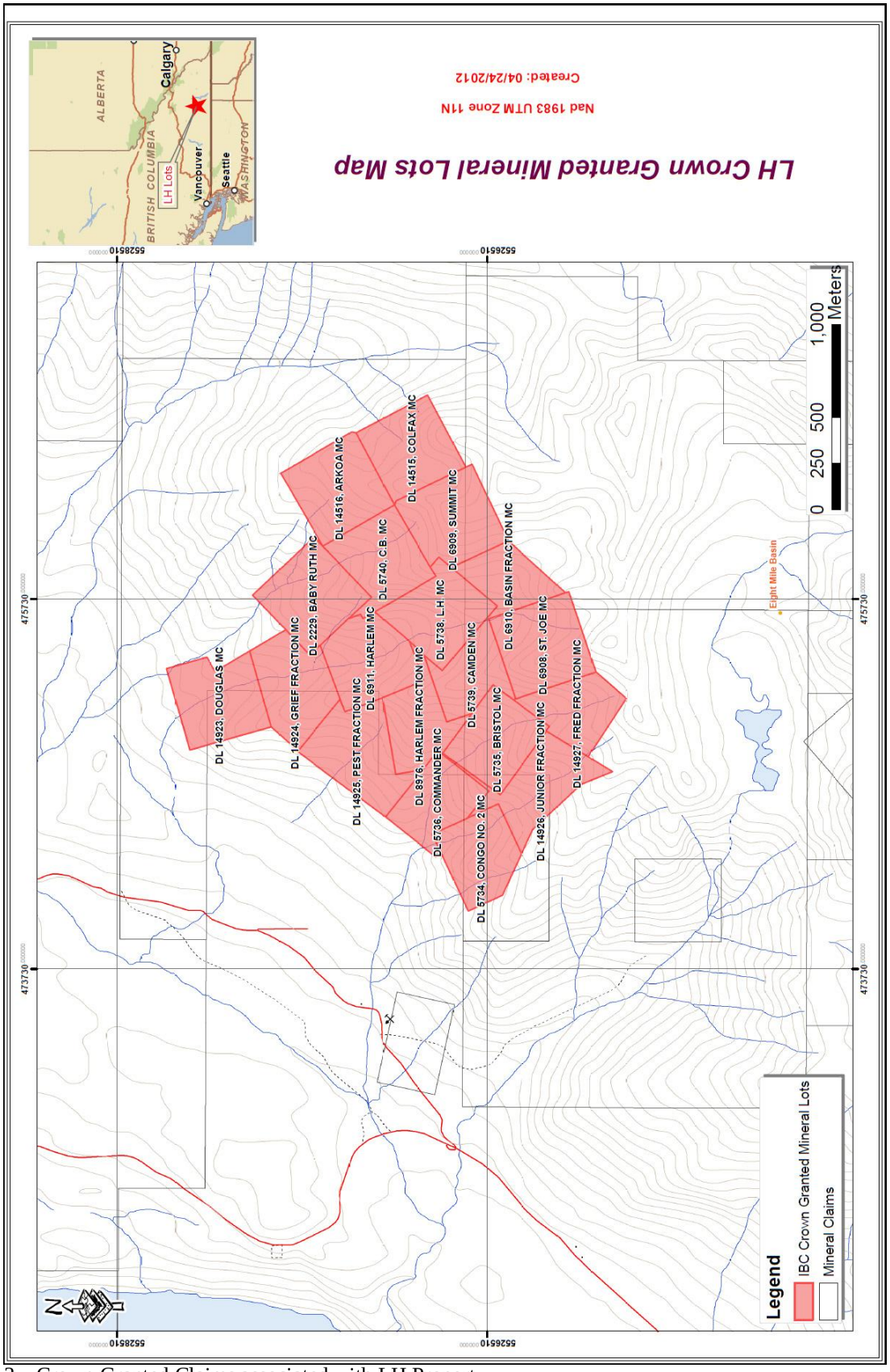


Figure 3 – Crown Granted Claims associated with LH Property.

6.0 HISTORY

The following summary of historical work has been modified slightly from (Kowalchuk 2013).

(Note: reference to historical resources do not conform to NI43-101 or CIMM resource categories. The references have been documented for historical interest)

Year	Activity
1895	Original discovery of gold
1911-1914	British Columbia Copper Ltd. completed underground development in tunnel 1 and 2 and established a historical estimate for the LH property of: 33,040 tons (29,974 T) at 0.29 oz/t (10.08 g/t) gold (positive) 18,350 tons (16,647 T) at 0.16 oz/t (5.45 g/t) gold (probable) 51,390 tons (46,621 T) at 0.25 oz/t (8.43 g/t) gold (total)
1934	Completion of tunnel 3
1936	Pacific Mines Development and Petroleum Company diamond drilled 6 holes totaling 250 metres from tunnels 2 and 3.
1939	Shipment of 216.2 tons from tunnel 2 yielded 111 oz gold and 71 oz silver.
1945	Quebec Gold Mining Corporation (Kenville gold) diamond drilled 18 holes totaling 460 metres from tunnel 3 and calculated a historical estimate for the LH property of 60,000 tons grading 0.25 oz/t gold.
1973	Granby Mining carried out geological mapping and rock geochemical sampling surveys centered on the underground workings.
1980	Andaurex Minerals upgraded the road to the underground workings and carried out 2 kilometers of soil sampling west of the showings.
1981	Hudson Bay Oil and Gas Company Ltd. optioned the property from Andaurex Resources Inc. Systematic collection of 669 soil samples at 50 metre stations on 60 metre contour traverses. Geological mapping and collection of the rocks, stream sediments and water samples. Road improvement and construction.
1985	Noranda Exploration Company Ltd. optioned the LH property from Andaurex Resources Inc. Examination of underground workings by Williams (1985) produced calculated and total proven and probable reserves (estimates) at 61,765 tonnes for the LH property grading 6.27 g/t gold and open at depth. Surficial examination by Ferreira (1985) produced a property geology map (scale 1:2,500), three grid soil geochemical surveys and one grid IP/magnetometer survey, as well as two diamond drill holes which produced a number of disjointed but interesting gold intersections the best of which was 25.2 g/t gold over 1.0 metre. Surficial rock

sampling discovered an intensely altered zone hosted by gabbro which contains 2.5 g/t gold over 6.3 metres true width.

1986 Encouraging gold analyses from 1985 rock sampling on the southwest portion of the property led to Fingland Creek grid's southwestern extension over the upper ridge, and subsequent soil survey. Three new grid lines were also added and sampled on the south end of the Fingland Creek grid in order to extend and delineate gold soil anomalies discovered in 1985.

Limited geological prospecting using the 1985 geology base (Ferreira 1985) was conducted in the Congo Creek and Fingland Creek areas while investigating rock and soil anomalies. No significant mineralization was encountered with minor changes being made to the 1985 geology base map. The majority of surficial geological work was curtailed in favour of an extended drilling program. Eight NQ diamond drill holes totaling 1194.9 metres were drilled, from which the best intersection produced a weighted average of 11.36 g/t gold over 14.07 metres. This intersection prompted an expansion in the drilling program which was unsuccessful in delineating a distinct zone.

1987 Noranda completed a program of detailed soil geochemical and geological/prospecting surveys over previously established anomalies on the ridge portion of the Fingland Creek grid. This was followed by trenching and two diamond drill holes. In addition a new grid was established in the Congo Creek area and covered by detailed soil geochemical and geological/prospecting surveys.

1988 Noranda continued drilling the ridge zone with a further 12 drill holes.

Some interesting mineralized zones were intersected in this drill program; in particular drill hole LH88-23 which intersected 10.78 m averaging 4.457 g/t gold.

2003 In January, Orphan Boy Resources (International Bethlehem Mining Corp) optioned the LH Crown grants and surrounding claims. In 2003, Orphan Boy completed a limited soil sampling program around the old mine entrances to the LH. Results generally agreed with previous soil surveys over the area.

At the time, the optioned claims also included the adjacent Willa Property, which Orphan Boy Resources relinquished in 2005. The adjacent Willa Property is now controlled by Discovery Ventures Ltd and is discussed in adjacent properties

* **NOTE:** All of the work mentioned in this section of the report was on the LH crown granted claims. All historical information and historical references to resources are taken from the history sections of Assessment Reports filed by Noranda Mines from 1982 to 1987. To the author's knowledge, these were all internal estimates and no documentation is available to confirm or deny them. No research has been done to confirm or deny the historical resources and they are merely mentioned for historical purposes and not to be relied upon as being significant.

2012 International Bethlehem Mining Corp completed a 246 metre drill hole in the Ridge Zone, approximately twinning hole LH88-23. The drilling was completely helicopter supported; using an Aérospatiale Lama helicopter to fly the drill and build the drill pads on the side of the mountain.

7.0 GEOLOGICAL SETTING

7.1 Regional Geology

The LH property is situated in the Omineca Crystalline Belt of southeastern British Columbia (Fig. 4). The stratigraphy consists of Upper Triassic sedimentary to Lower Jurassic volcanic to volcaniclastic strata comprising an interpreted roof pendant within the Middle Jurassic Nelson Batholith (Fig. 5).

The following has been modified from Kowalchuk (2013).

> The Upper Triassic Slocan Group is interpreted as flysch sequence of immature sandstones, siltstones and shales that conformably underlie the Rossland Group. The Rossland Group consists of basic volcanics and volcaniclastics comprising a chaotic sequence of intermediate tuff, lapilli tuff and agglomerate.
>
> The large volume of pyroclastics, as well as their chaotic nature and gradational contact with the sediments, has been interpreted as representing a possible volcanogenic island arc setting. IN such a setting, a proximal shallow marine or terrestrial volcanic vent could produce the volume and fragment size of the pyroclastic material documented.
>
> The strata comprising the interpreted roof pendant are exposed along the north-eastern to eastern margin of the property. The roof pendant is enclosed and intruded by strata correlated to the Middle Jurassic Nelson Batholith, predominantly composed of coarse-grained granodiorite to quartz monzonite rocks (Ash 2014) and comprises the remainder of the property …

7.2 DEPOSIT TYPES

Gold mineralization at LH is epigenetic and mesothermal and appears related to the underlying the Nelson Batholith.

Two gold bearing zones have been identified on the property. In the Tunnel Zone, mineralization consists of structurally controlled, mesothermal quartz veins traced over 70 metres along the length of the veins, varying vary from 0.6 to 7 metres in width. Native gold mineralization appears to be associated with arsenopyrite, pyrite, pyrrhotite and chalcopyrite. This vein mineralization grades approximately 7.0 to 10.0 g/t gold.

A second style of gold mineralization occurs in the Ridge Zone. Drilling in 1988 reported the ridge mineralization as a silicified breccia or gold-bearing stockwork zone lying within hornfelsed and silicified volcanics. This highly silicified zone forms a north-south trending ridge. On observation of the core from this zone, the author believes that this mineralization is related to hydrothermal alteration of the volcanic rocks by the underlying batholith forming hornfelsing and skarnification. Alteration minerals consist of epidote, diopside and pyrrhotite with minor chalcopyrite. The rocks have been extensively hornfelsed and silicified. Both styles of gold mineralization appear to be structurally controlled, with an intimate association to zones of intense silicification, calc-silicate alteration and variable sulphide mineralization (Arsenopyrite, Pyrrhotite and/or Pyrite).

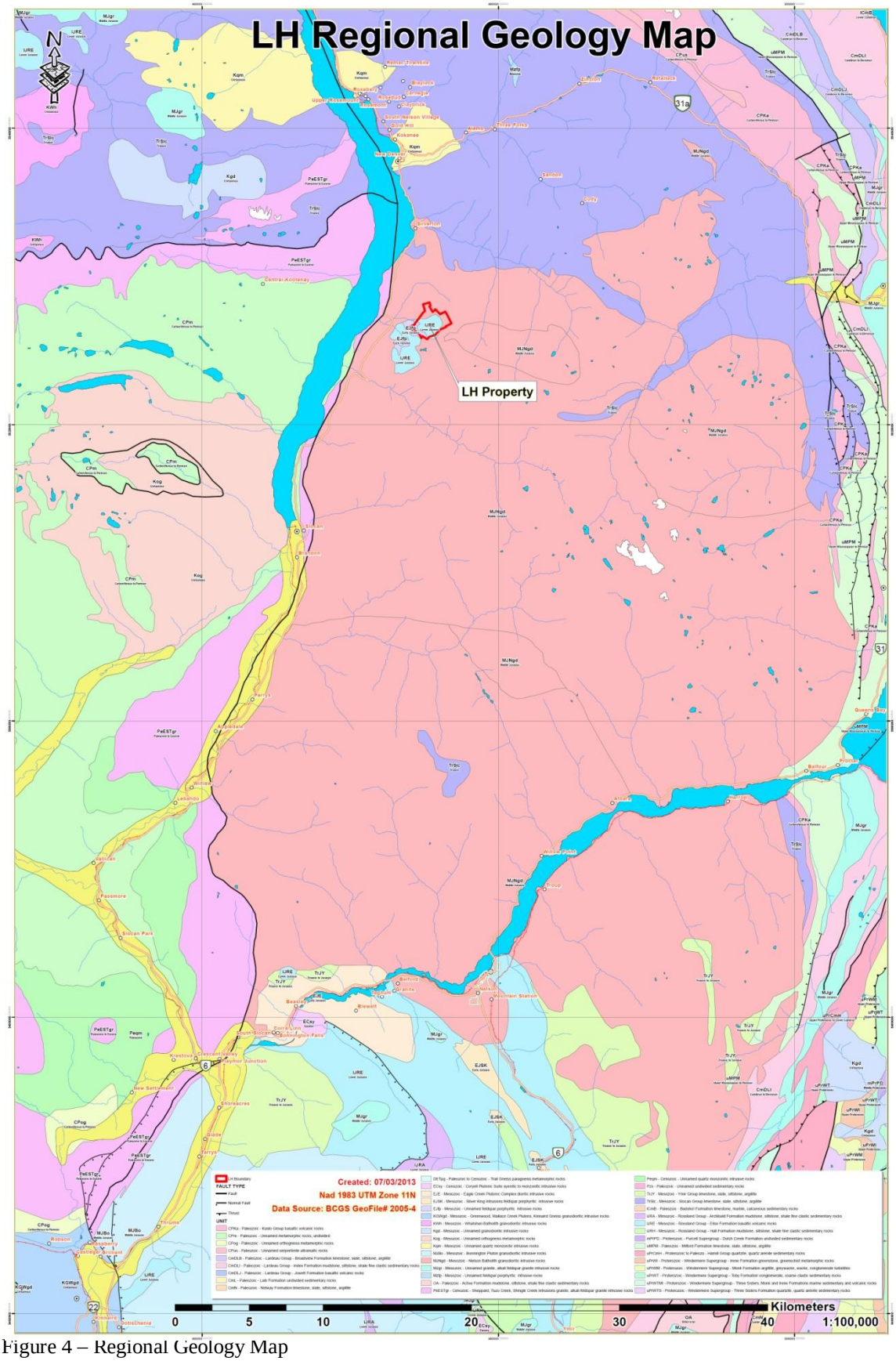


Figure 4 – Regional Geology Map

8.0 LOCAL GEOLOGY

The following has been modified from Kowalchulk (2013) (and references therein), and is based upon mapping and drilling on the immediately adjacent Willa deposit.

8.1 Stratigraphy

Volcanic and volcaniclastic lithologies correlated to the Rossland Group (Fig. 5) are the oldest rocks in the area, comprising approximately 75% of the roof pendant. The rocks in this group range from volcanic siltstone and tuff to coarse breccias and flows. The metavolcanic roof pendant is intruded by two felsic porphyritic intrusions. The first intrusion is a quartz latite porphyry ring-dyke with two radial dykes that have a central core of feldspar and a crosscutting breccia pipe. The second intrusive consists of two sub-parallel igneous bodies consisting of white feldspar porphyry and hornblende feldspar porphyry. A heterolithic breccia intrudes the earlier intrusions and volcanic. Lamprophyre dykes and faults crosscut and sometimes displace earlier lithologies.

Age	**Description**	
	Lamprophyre	
Middle Jurassic	Nelson Granite	
Lower Jurassic	Heterolithic Breccia	
	Feldspar Porphyry	White Feldspar Porphyry
		Feldspar Porphyry
		Hornblende Feldspar Porphyry
	Quartz Latite Porphyry	
	Rossland Group Volcanics	Pyroclastics
		Augite Porphyry
		Volcanic Siltstone
		Biotite Schists

Source: Heather 1985

8.1.1 Rossland Group

Fragmental pyroclastic rocks make up roughly 70% of the Rossland Group, ranging from volcanic agglomerates and conglomerates to fine-grained crystal and lithic tuffs (Heather 1985).

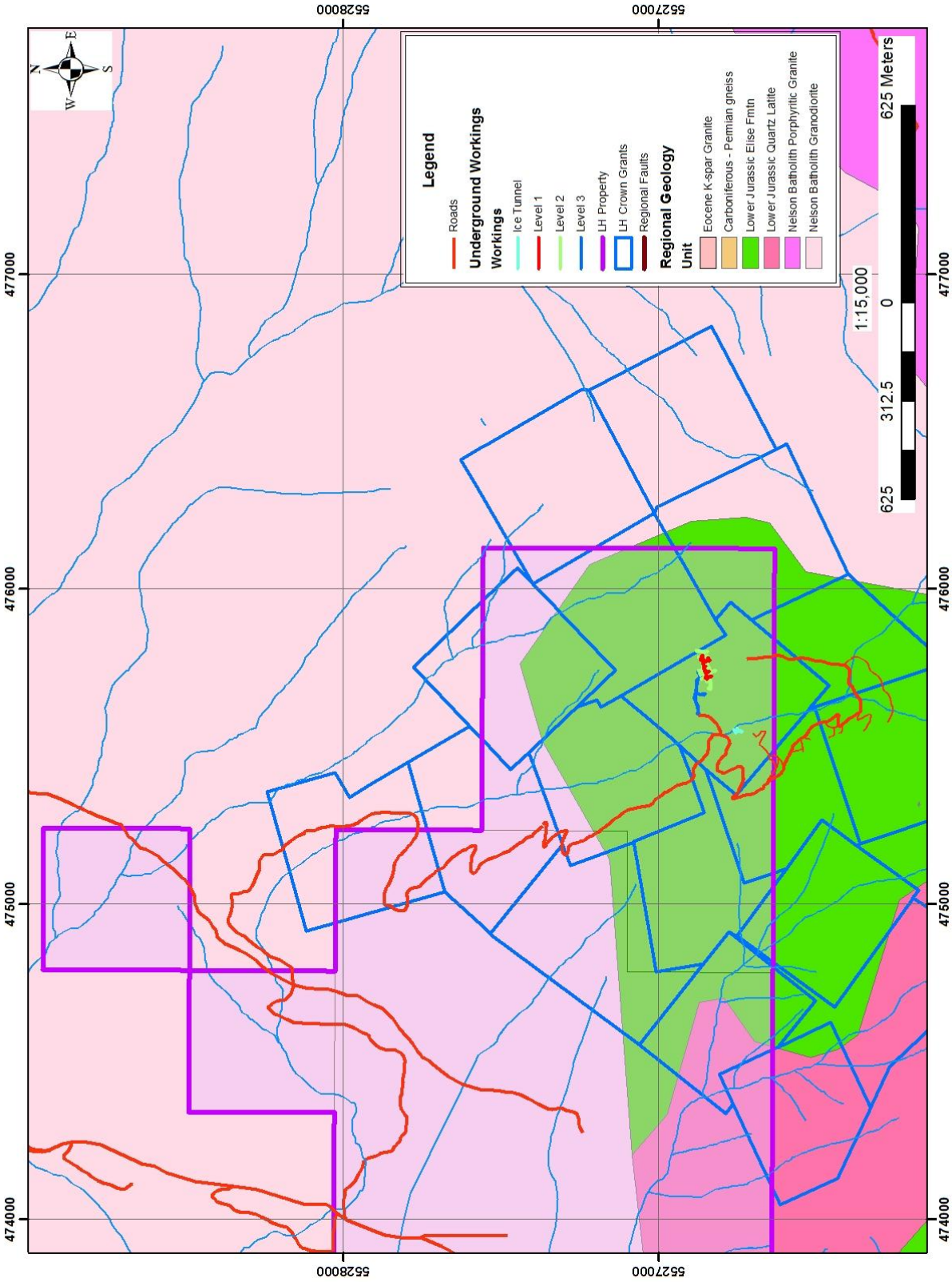


Figure 5 – Local Geology Map

Augite porphyry sills or flows have been identified around the adjacent Willa deposit. The unit varies from dark green to black-green and yellow-green and is usually altered (iron-stained or bleached). Augite and plagioclase phenocrysts are euhedral to subhedral and range in size from 0.5 to 4.0 mm. The matrix is composed of augite, feldspar and biotite.

Volcanic siltstone or hornfels is usually interbedded with the augite porphyry and makes up only a small portion of the Rossland Group. Siltstone varies from green (actinolite-quartz-plagioclase-orthoclase) to grey to pink (biotite-plagioclase-orthoclase).

Biotite schist occurs predominantly to the south and southeast of the heterolithic breccia. This black biotite schist has been identified in both core and outcrop and is believed to be related to the Augite Porphyry unit.

8.1.2 Quartz Latite Porphyry

The quartz latite porphyry unit forms a ring and radial dyke complex intruding the Rossland Group. Its composition ranges from quartz monzonite to granodiorite, with large phenocrysts of plagioclase. The ring dyke structure is elliptical in shape trending 050° Az with a 5-km by 1-km size. The radial dyke radiates both inward and outward from the ring structure. There is up to 7% pyrite in the quartz latite porphyry and when it exposed on surface, the blocky fractured outcrop has a limonitic stain.

8.1.3 Feldspar Porphyry

The feldspar porphyry intrusive stock is centred within the quartz latite porphyry. It has an elliptical shape that trends 000° Az. This unit has phenocrysts of plagioclase and quartz with minor pyrite, apatite, titanite and magnetite. Outcrops are oxidized with skins of limonite and manganese oxide.

The white feldspar porphyry intrusive has been mapped as 2 elongated bodies 1 km north of the quartz latite porphyry ring dyke. This highly altered unit has large plagioclase and small quartz phenocrysts with minor pyrite and hornblende.

The hornblende feldspar porphyry forms small intrusive bodies and dykes within the quartz latite porphyry and the feldspar porphyry. The large plagioclase and small hornblende phenocrysts are within a groundmass of orthoclase and quartz.

8.1.4 Heterolithic Breccia

The heterolitic breccia lies within the core of the quartz latite porphyry ring dyke and is roughly cylindrical in shape. The pipe has approximate dimensions of 350 m (north-south) by 200 m (east-west). The outer portions of the breccia pipe have a crackle breccia texture. All the above lithologies, other than the white feldspar porphyry, have been identified as angular to rounded fragments within the pipe. Fragments normally show propylitic or potassic alteration. The matrix of the pipe is altered, iron-rich rock flour composed of plagioclase, quartz and orthoclase with minor actinolite and biotite.

8.1.5 Nelson Batholith

The Nelson Batholith is composed of a variety of granitic rocks ranging from porphyritic granite, quartz monzonite, syenite to granodiorite. The batholith encloses the volcanic roof

pendant and does not outcrop near the Willa deposit. Granitic pegmatite dykes have been intersected in some of the deep core drill holes but the main Nelson Batholith has not been intersected to date.

8.1.6 Lamprophyre Dykes

Mafic dykes have been intersected in many drill holes within the intrusive complex and are usually less than 1.0 m thick. They normally trend north-south and are steeply dipping. These dark green to black dykes are composed predominantly of plagioclase and/or pyroxene and biotite. They contain varying amounts of orthoclase, quartz, amphibole, chlorite and olivine, with minor apatite, titanite, zircon and magnetite.

8.2 Structures

There are several types of faults thought to localize the gold-copper-silver mineralization

'Paleo-Faults' are north-striking, vertically-dipping faults that have been active throughout the mineral emplacement. They are thought to control the lamprophyre dykes.

The 'Flat Faults' strike easterly and dip 15° to the north and may have reacted with the 'Paleo-Faults' to create vertical conduits for metal-bearing fluids resulting in mineralization.

The 'Dislocation Faults' strike northeast and dip 45° SE to vertical. They offset the 'Paleo-Faults'. An example of this type of fault is the 'Willa Fault'. It has a strike of 040° Az, dips vertically with no apparent offset.

Contact faults follow the contact of the Heterolithic Breccia and probably serve as conduits for gold-copper-silver mineralization, but are narrow.

8.3 Mineralization

There are two main types of mineralization in the area. The first is calc-alkalic quartz-molybdenite stockwork and the second is gold-copper-silver mineralization.

Quartz-molybdenite stockwork mineralization is weak but extensive in the quartz-latite porphyry and Rossland Group north and west of the heterolithic breccia. Molybdenite (MoS_2) occurs within quartz and along quartz vein boundaries. Due to its low grade, it is not considered to be of economic interest at this time.

Gold-copper-silver mineralization is predominantly chalcopyrite ($CuFeS_2$) with varying amounts of pyrite (FeS_2) and pyrrhotite ($Fe_{1-x}S$). Sulphides tend to be encapsulated within sheets of silica. Propylitic alteration occurred during mineralization, as did zones of intense silicification and minor pyritization.

8.3.1 Geological Controls

Au-Cu-Ag mineralization is hosted predominantly within the heterolithic breccia unit, although mineralization has been identified in the feldspar porphyry, quartz latite porphyry and Rossland Group volcanics (East Zone). Mineralization is controlled by extensive silica-rich micro-fractures, faults, shears and breccias predominantly within the heterolithic breccia unit which formed a zone of weakness for the emplacement of the mineralization.

9.0 PROPERTY GEOLOGY

The LH property is underlain predominantly by strata correlated to the Nelson Batholith (Fig. 5). Strata mapped as part of the roof pendant are located along the eastern margin of the property and underlie the Crown Grants in the northeast portion of the property.

9.1 LH MINFILE Occurrence (082FNW212)

The following has been taken from the MINFILE database for 082FNW212.

> "The L.H. occurrence is located within a roof pendant of Lower Jurassic Rossland Group metavolcanics and Early Jurassic equivalents. Lithologies comprising the Rossland Group at the L.H. occurrence include augite porphyry, greenstone, quartzite, arenite, sandstone and argillite. These rocks have been tentatively correlated with the Elise Formation and are strongly contact metamorphosed at the L.H. occurrence. Subvolcanic equivalents include quartz latite porphyry and feldspar porphyry. Altered aplite dikes crosscut Rossland Group rocks at the L.H. occurrence; quartz, calcite and sericite form the major constituents. These hostrocks are enclosed by medium grained biotite hornblende diorite and fine-grained granite of the Middle Jurassic Nelson batholith. Two major fracture orientations are present in hostrocks. The first follows a prominent joint plane, striking 075 to 080 degrees and dipping 50 degrees to vertical. The other strikes 025 degrees and dips 65 degrees southeast.
>
> Mineralization follows a zone of fracturing and faulting. The zone width is 6.1 to 13.7 metres, striking nearly west and dipping north at about 55 degrees. Ore consists of native gold, arsenopyrite, pyrite and pyrrhotite with minor chalcopyrite and native arsenic. A maximum width of 13.7 metres mineralization was intersected on the No. 2 level, with the best grades on the centre and western-half of the drift over 91 metres length. A narrow sericite-altered dike occupies the fissure for most of its length on the No. 2 level. The No. 1 level parallels the hangingwall of the ore zone.
>
> Hostrocks are silicified and the limits of mineralization within this zone are poorly defined. Disseminated mineralization is hosted in quartz lens-filling fractures 30 to 60 centimetres wide. Quartz also forms many small stringers or more commonly impregnates the wallrocks and varying proportions of ore mineralization. Higher grades are generally associated with more intense silicification and arsenopyrite. Minor calcite has also been reported.
>
> From the 196 tonnes of ore mined in 1939, 1928 grams silver and 3452 grams gold were recovered".

These reported results correspond to a grade of 17.61 g/t Au and 9.84 g/t Ag.

The following has been modified from Kowalchuk (2013).

> Detailed mapping by Noranda (1985 – 1988) documented a series of alteration zones developed within the large package of pyroclastics forming the ridge along the west side of the Fingland Creek drainage (Fig. 6). On the east side, exposures of tuff and agglomerate are relatively

unaltered, however, alteration progressively increases to the west, distinguished by an increase in biotite hornfels alteration and chlorite - hornblende alteration with local potassic and sericite alteration. On the west side, the intensity of alteration increases, comprising zones of well-developed biotite hornfels and pyroxene and epidote calc-silicates in the southwest portion of the ridge. In addition, pervasive silicification throughout a wide central zone cores the steep ridge running approximately north-south. This pervasively silicified zone is important as it is the primary host to sulphides associated with anomalous gold mineralization.

Gold mineralization occurs in structurally controlled mesothermal quartz veins along with pyrite, arsenopyrite, and chalcopyrite. Gold also occurs in a stockwork zone of silicified and hornfelsed volcanics. This mineralization is associated primarily with pyrrhotite and arsenopyrite, and minor chalcopyrite.

10.0 2014 PROGRAM

The 2014 program consisted of an initial compilation of work available from previous exploration programs (Fig. 7), followed by physical work to facilitate quad access to the Crown Granted Mineral Claims (Fig. 8). Subsequent work included further physical work (i.e. line-cutting to prepare the survey grid) and ground geophysical surveying comprised of Self-Potential (SP) and an Induced Potential (IP) / Magnetics survey.

10.1 Data Compilation

Data compilation was initiated in May, 2014 and continued throughout the duration of the project. The majority of the useful information was compiled from a series of exploration programs completed by Noranda Exploration Company between 1985 and 1988.

The resulting geochemical database consists of a total of 350 soil and 114 rock samples analyzed primarily, albeit variably, for gold (Au), silver (Ag), arsenic (As) and copper (Cu) (Fig. 7). Additional elements analyzed for subsets of the resulting databases include lead (Pb), molybdenum (Mo) and/or zinc (Zn). Finally, approximately half the rock samples have multi-element Inductively Coupled Plasma (ICP) analysis.

Of the 12 diamond drill holes completed by Noranda during this time period, analytical results and core descriptions are available for holes LH86-05 to LH86–10 and LH8-11 and LH87–12. No data and/or descriptions have been located for the initial 4 drill holes (LH86-01 to LH86-04).

Furthermore, an additional 12 drill holes were subsequently completed by, or on behalf of, Andaurex Resources Incorporated and/or Goldpac Investments Ltd, however, the only information available is from copies of News Releases, comprising very limited summaries of the programs and high grade results.

Finally, an initial hole (LH-12-25) was completed on behalf of the joint venture between International Bethlehem Mining Corp. and Magnum Goldcorp Inc. in 2012. The results of this drill hole are included in the property database.

10.2 Physical Work

An initial reconnaissance was made between June 3 and 4 to check access to the property, specifically the access road along Fingland Creek. An additional trip was made on June 16 – 18 to walk the access road to the Level 3 workings of the old LH mine. Road rehabilitation to make the mine access road available

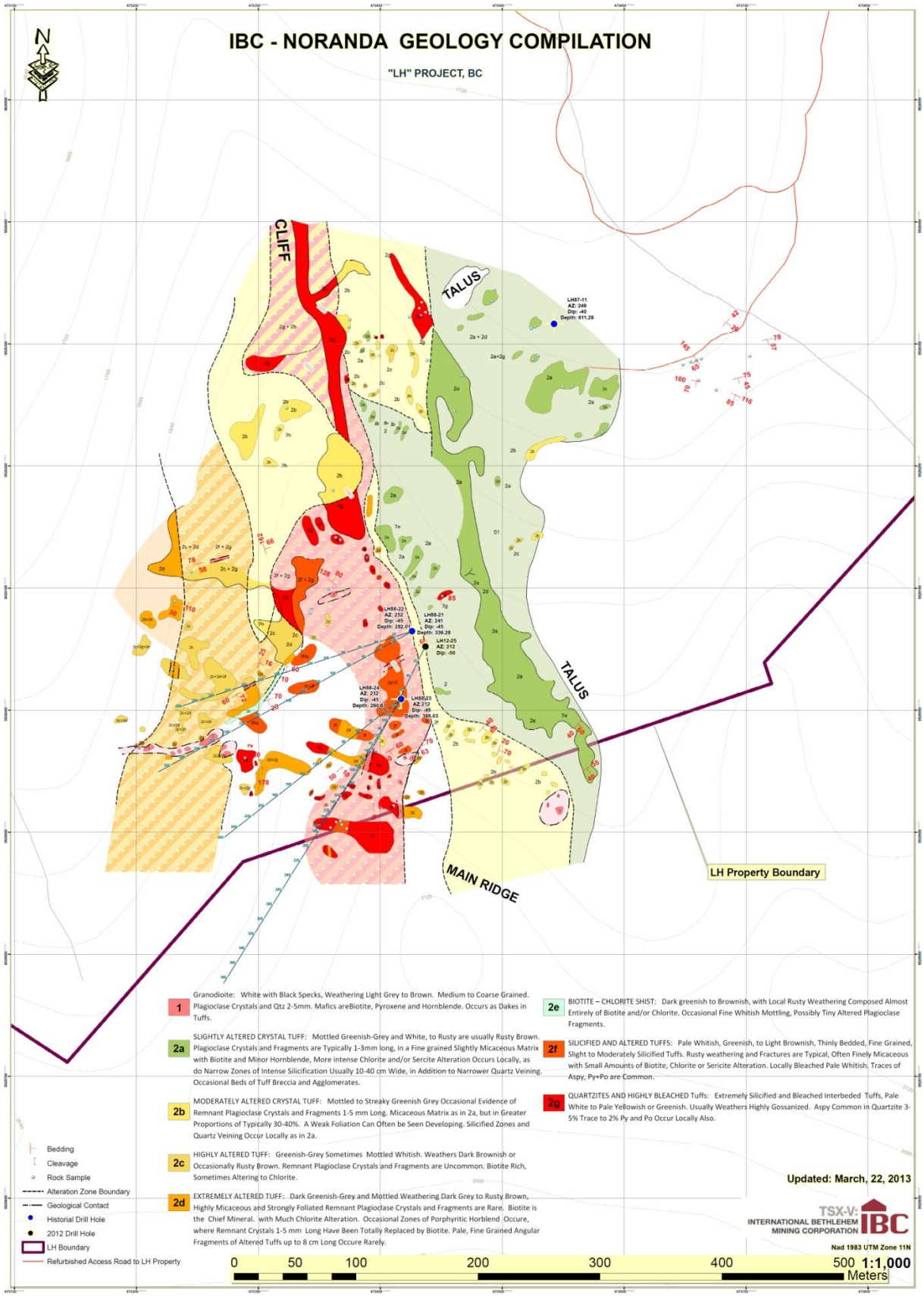


Figure 6 – Alteration map (after Mitchell 1988)

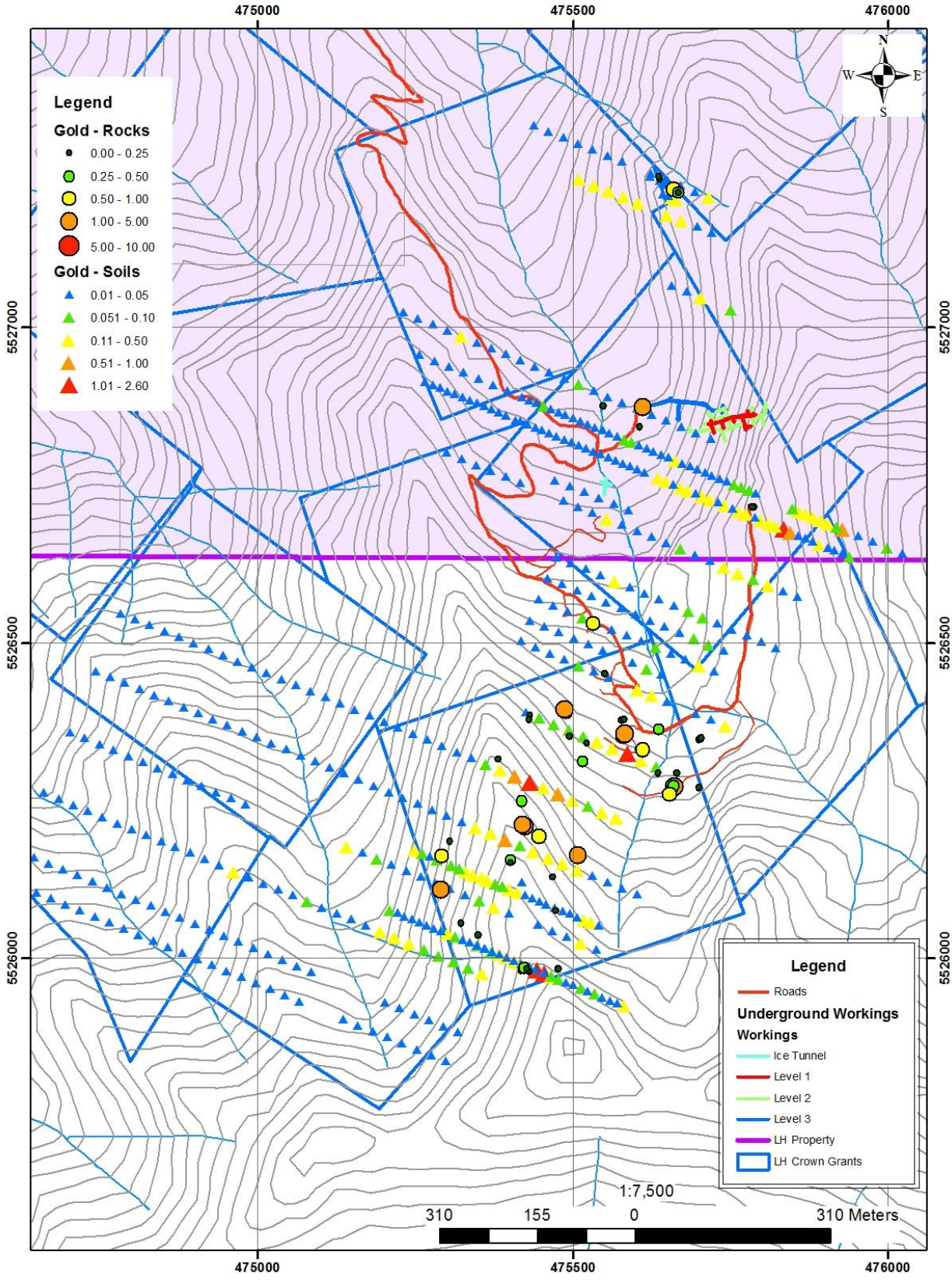


Figure 7 – Compilation map, predominantly from Noranda programs between 1985 - 1988

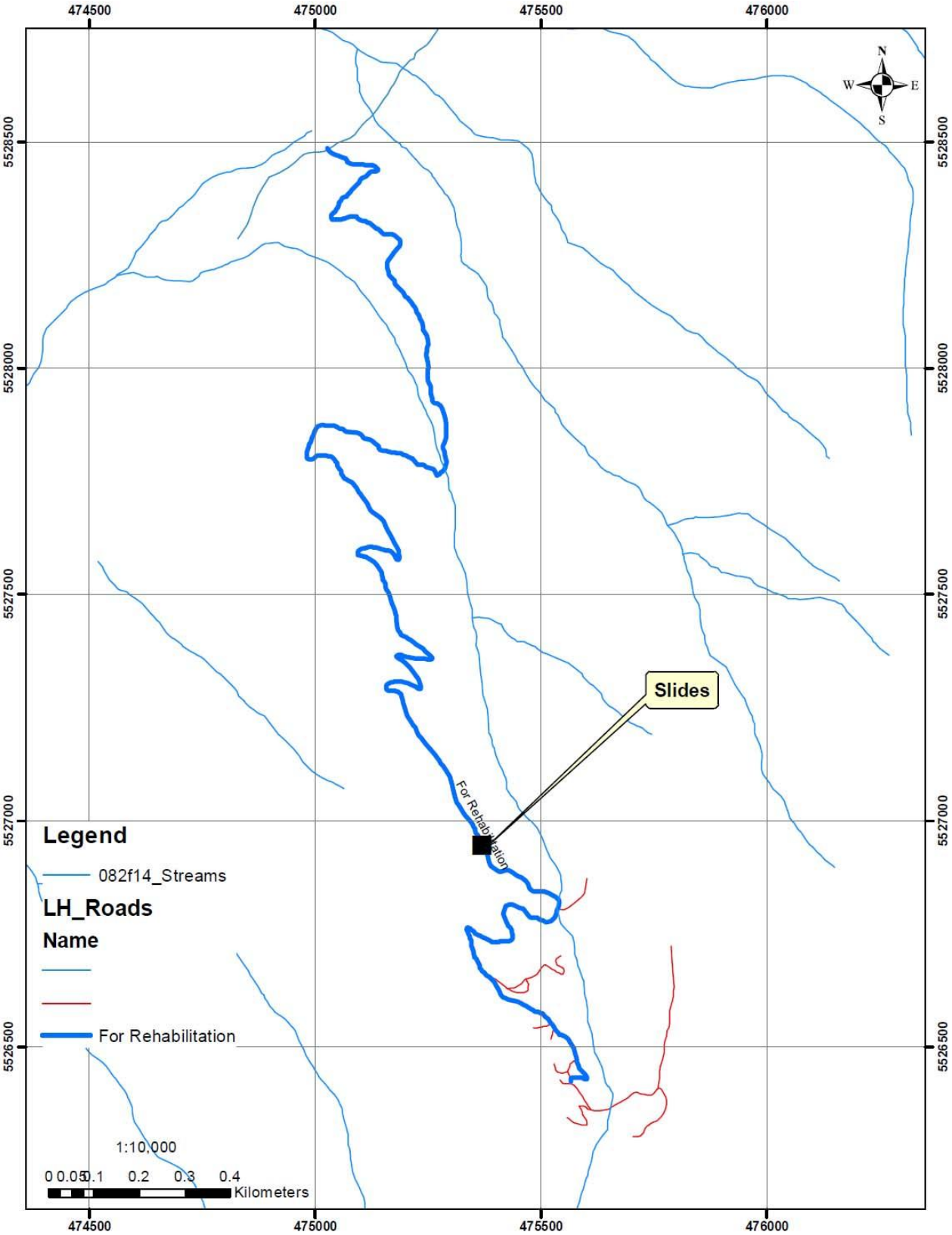


Figure 8 – Road rehabilitated to provide quad access for geophysical survey.

for quad access commenced on June 21, comprised of three labourers and one supervisor, and was completed on June 25 (Fig. 8).

Flagging of the survey grid commenced on June 24, followed by line-cutting. Preparation of the grid was completed July 24, totaling approximately 5 line km. A detailed breakdown of costs associated with the physical work is provided in Appendix B.

10.3 Self-Potential Survey

An initial Self-Potential (SP) survey was completed on the available road network between June 30 and July 3. The survey area extends from an elevation of approximately 1560 m along the main access road below the LH Mine workings to the end of the available road system at approximate UTM coordinates 475,780 East, 5,526,720 North.

Stations were paced out with a station spacing of approximately 15 m along the available road network, comprised of the main access road and drill roads / pads (Fig. 9 and 10). A total of four base stations were established, with readings leveled between stations. The survey was completed using two copper pots, each filled with a saturated copper sulphate solution, with one used as a fixed Base Station and the second as a roving station. The two copper pots were connected using a copper wire on a spool. Readings were taken at each station using a voltmeter, with readings in mV. Results from the SP survey are provided in Appendix C.

10.4 Ground Geophysical Survey

A ground geophysical survey was completed on the prepared grid between July 23 and August 1, 2014 by Peter E. Walcott and Associates Limited. The survey included both a Pulse Type Induced Potential (IP) and magnetometer survey. The survey area included a total of 9 survey lines spaced at approximately 100 m for a total of approximately 5 line km. The IP survey utilized a 50 m dipole separation while the Magnetic survey utilized readings every 12.5 m.

A copy of the Logistics Report for the geophysical survey is provided in Appendix D.

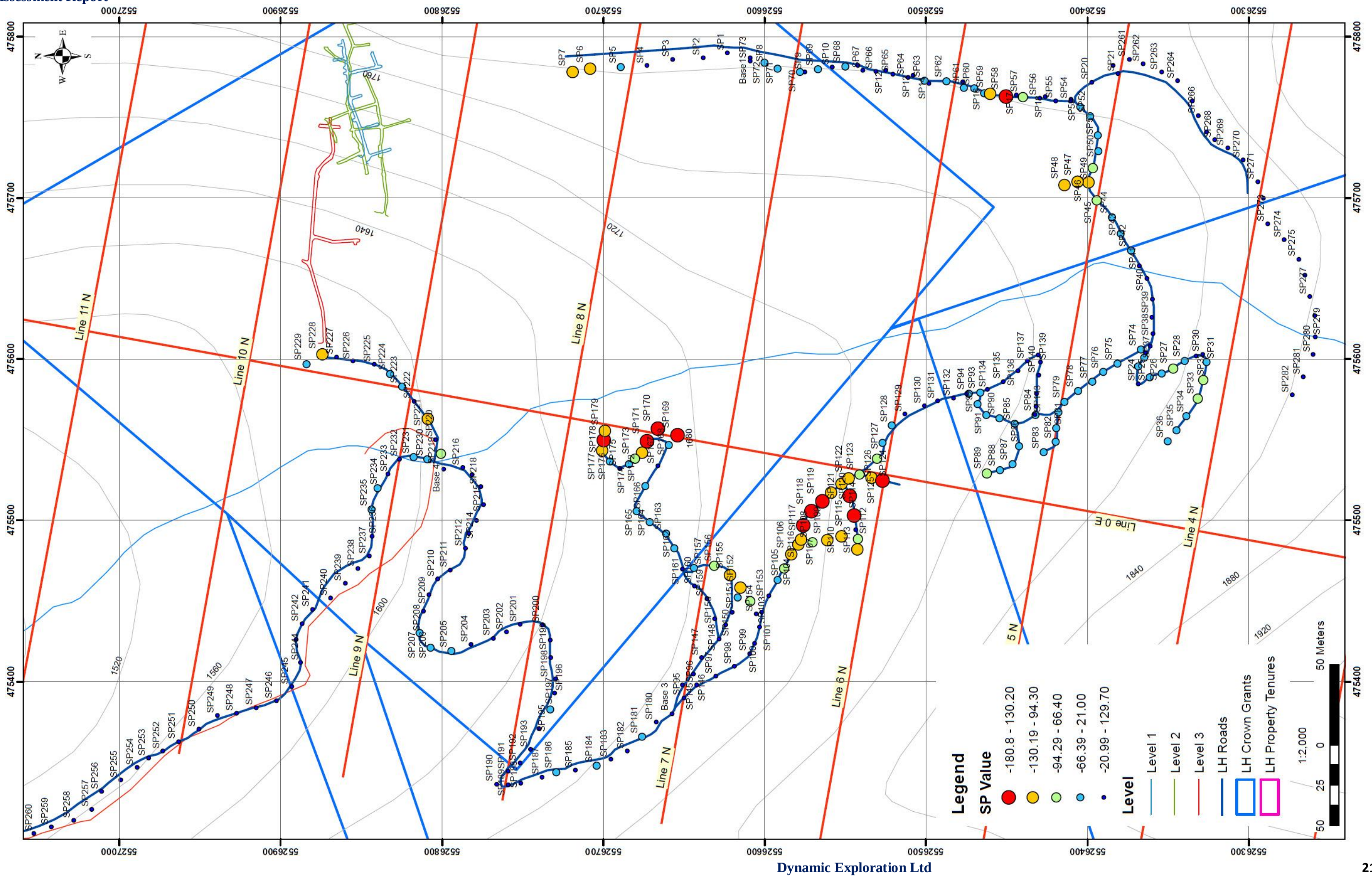
10.5 Water Quality Survey

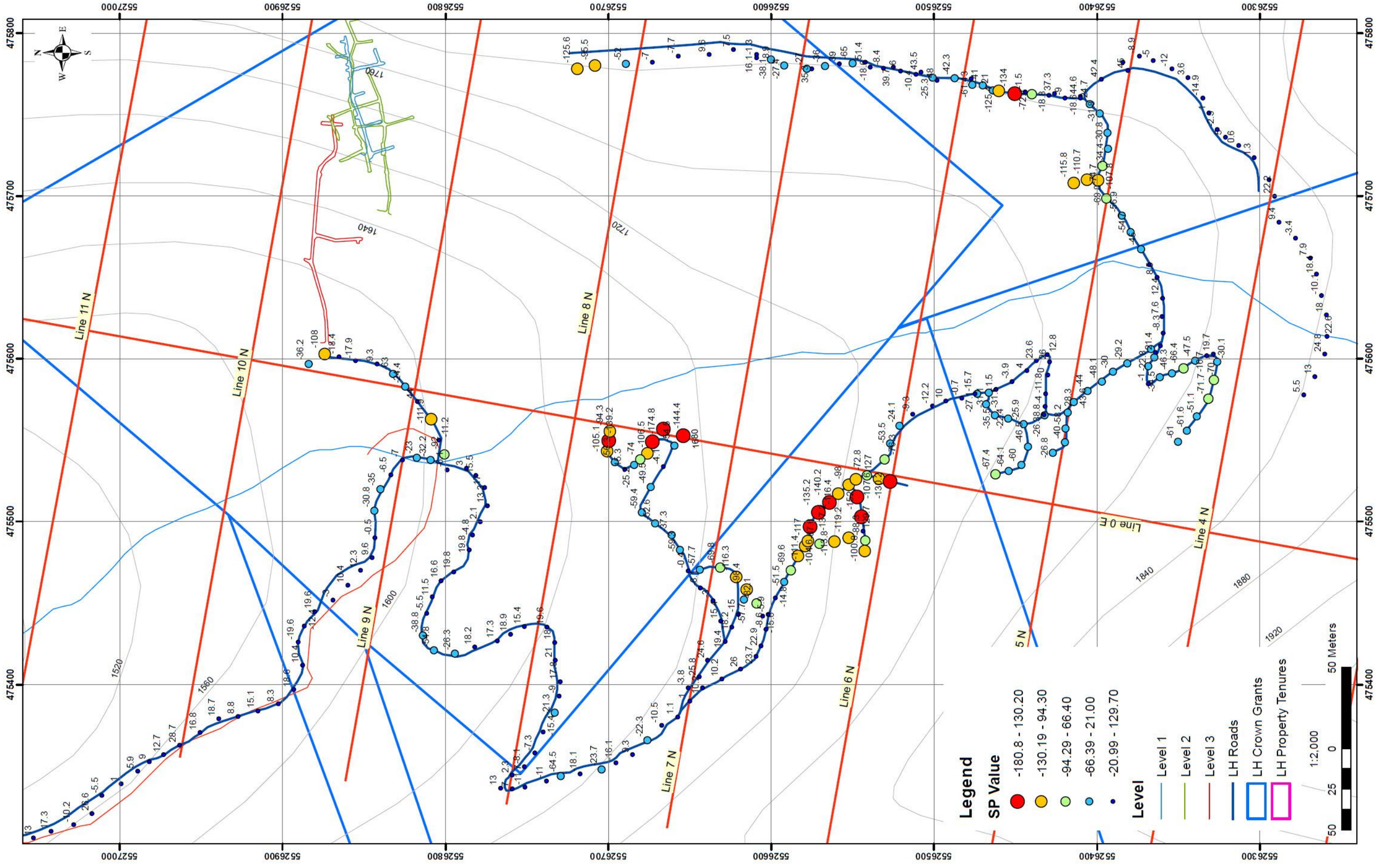
Sampling for a Water Quality Survey was undertaken on August 7, 2014 by Dillon Consulting Limited. Sampling was scheduled after the spring freshet so as to establish an initial baseline for dissolved metal content, temperature, pH, dissolved oxygen, conductivity, and turbidity prior to any mechanical disturbance associated with the 2014 drill program and for future reference. A total of four locations were sampled (Fig. 11), as follows:

Figures 9 and 10 on following pages.

Figure 9 – Station location for Self-Potential survey.

Figure 10 – Station results for Self-Potential survey, values in mV.


552700
552690
552680
552670
552660
552650
552640
552630
475800
475700
475600
475500
475400
Line 11 N
Line 10 N
Line 9 N
Line 8 N
Line 7 N
Line 6 N
Line 5 N
Line 4 N
Line 0 E
1760
1640
1720
1600
1520
1560
1840
1880
1920
Legend
SP Value
-180.8 - 130.20
-130.19 - 94.30
-94.29 - 66.40
-66.39 - 21.00
-20.99 - 129.70
Level
Level 1
Level 2
Level 3
LH Roads
LH Crown Grants
LH Property Tenures
1:2,000
50 Meters
0
25
50


Line 11 N
Line 10 N
Line 9 N
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Line 7 N
Line 6 N
Line 5 N
Line 4 N
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1760
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Legend
SP Value
-180.8 - 130.20
-130.19 - 94.30
-94.29 - 66.40
-66.39 - 21.00
-20.99 - 129.70
Level
Level 1
Level 2
Level 3
LH Roads
LH Crown Grants
LH Property Tenures
1:2,000
50 Meters
0
25
50

Site ID	Watercourse	Location Description	UTM Coordinates Zone, Easting, Northing
F1	Fingland Creek	At crossing with Red Mountain Road; downstream of proposed drilling activities	11 U 0474049 E; 5528047 N
F2	Fingland Creek	Immediately upstream of temporary crossing	11 U 0475288 E; 5527779 N
F3	Fingland Creek	Upstream of bridge crossing; downstream of proposed drilling activities	11 U 0475529 E; 5526782 N
F4	Fingland Creek	Past boulder field; upstream of proposed drilling activities	11 U 0475672 E; 5526365 N
B1	Babe Ruth Creek	Upstream of confluence with Vevey Creek; 100 m up LNH access road	11 U 0474625 E; 5529332 N

The survey was intended to meet two objectives:

1. Determine baseline surface water quality conditions as part of on-going exploration activities, and

2. Generate water quality data that can be easily integrated into other project permitting activities if, and as, required (e.g., *Mines Act*, Project Environmental Assessment).

A copy of the Water Quality Report is provided in Appendix E.

11.0 RESULTS

11.1 Data Compilation

Existing analytical data from available assessment reports were compiled into separate soil, rock and drill hole databases to assist in understanding the geology, alteration and economic potential of the LH Property.

The soil and rock data are presented in Fig. 7 and document an anomalous area transected by the uppermost portions of the available road network, extending southwest from the underground workings of the LH MINFILE occurrence to the western margin of the headwaters of Fingland Creek. The resulting trend is a minimum of 960 m long by 260 m wide, from the underground workings of the LH mine to the southern limits of sampling.

This surface geochemical anomaly extends south-southwest along and, together with alteration mapping, defines, the "Ridge Zone" previously drilled by Noranda Exploration Company ("Noranda") in 1988. The following table is a compilation of results reported from the four holes (Note: the author has been unable to locate a copy of the original News Release, therefore, the results are considered anecdotal).

Hole Number	From (metres)	To (metres)	Width (metres)	True Width (metres)	Gold (Au) (g/tonne)
LH-88-21	167.42	168.11	0.69	0.50	0.45
LH-88-22	96.50	103.45	6.95	6.00	3.43
including			1.00		34.29
LH-88-23	65.18	75.96	10.78	9.5	4.46
	148.1	199.06	50.96	45	1.20
including			0.48		6.86
including			0.9		14.40
including			0.68		5.83
and			0.14		4.46
LH-88-24	25.3	36.75	11.45	10.5	1.03
including			0.22		15.43

In addition, as part of a joint drill program with International Bethlehem Mining Corp., the following intercepts were reported for hole LH12-25.

Hole Number	From (metres)	To (metres)	Width (metres)	Gold (Au) (g/tonne)
LH-12-25				
	37.00	38.00	1.00	14.70
	53.00	92.00	39.00	0.44
including	59.00	65.00	6.00	0.62
including	63.58	64.00	0.42	2.50
and	81.86	90.00	8.14	0.90
including	83.37	86.50	3.13	1.43
and	99.00	124.00	25.00	0.15
	145.04	163.00	17.96	0.47
including	149.00	154.00	5.00	1.28
including	153.23	154.00	0.77	2.56

Note: True Width not determined/reported

11.2 Self Potential Survey

The initial Self-Potential (SP) survey along the road network, extending from the approximate elevation of the LH MINFILE occurrence to the upper extent of the road network was very successful in identifying potential anomalies of interest. Survey station locations are shown in Fig. 9 and survey results in Fig. 10.

The limited Self-Potential ("SP") survey was undertaken to make an initial evaluation of the Property for the purposes of the 2014 program. The survey identified two reasonably sized anomalies along and slightly west of the baseline (Fig. 10). The first anomaly is located on the Baseline immediately south of Line 8N, with the second anomaly located slightly west of the Baseline and north of Line 6N. Initial modeling of the second anomaly was interpreted to suggest the anomaly is located at a depth of approximately 52 metres below surface.

11.3 IP / Magnetometer Survey

The Logistics Report for the combined Induced Potential (IP) / magnetometer survey is appended as Appendix D. A total of approximately 5.3 line km were surveyed. Data from the IP survey is presented as Calculated Resistivity and Calculated IP pseudo-sections for each line, a map of Apparent Chargeability and a map of Apparent Resistivity.

11.3.1 Induced Potential Survey

The IP method requires a map distance of approximately 150 to 200 m to reach maximum penetration, resulting in a tapered response at either end of each section. In addition, the "west-dipping" anomalies are, apparently, artifacts of processing.

The data document a very strong response for both Chargeability and Conductivity (Note: Conductivity is the inverse of Resistivity such that a low resistivity response corresponds to a high conductivity response). Lines 0N to 2N document a very strong, large anomaly extending from approximately 0+60 E on Line 0N to 1+00 E on Line 3 N. The anomalies extend from, essentially, surface to the maximum depth of the survey, interpreted to suggest considerable potential for identification of anomalous mineralization.

There are a number of both anomalies apparent on both Calculated Resistivity and Calculated IP sections for the remaining sections to the north, however, they do not appear to develop into larger coherent anomalies at this time.

The Apparent Chargeability Map (Appendix D) is interpreted to suggest the 2014 survey area is located along the eastern fringe of a significant conductivity anomaly, particularly at the southwest margin of the survey.

11.3.2 Magnetometer Survey

Results from the magnetometer survey confirm the presence of the two anomalies identified by the preceding SP survey, comprising two expressions of a larger anomaly (refer to Appendix D). The main portion of this magnetic anomaly lies to the south of Line 6N, extending southwest of the existing road network. A review of previous results, particularly those from the 2012 drill program, are interpreted to suggest that moderately to strongly anomalous gold values are associated with intervals having strong pyrrhotite mineralization. Pyrrhotite is both magnetic and strongly conductive, therefore, a coincident SP (i.e. conductive) / magnetic anomaly may indicate the presence of elevated pyrrhotite content, potentially with elevated gold values. The magnetic anomaly (above) is part of a trend of at least 5 similar anomalies, ranging from 35 m in diameter to an elongate anomaly 82 m wide by a minimum of 170 m length. The first SP anomaly (west of Line 8N) represents the northernmost portion of this well developed, strongly magnetic string of anomalies.

11.4 Water Quality Survey

The following has been modified from Reinert (2014).

Samples were collected and submitted to Maxxam Analytics (Maxxam) for analysis of the following parameters:

- Metals (total and dissolved);

- Nutrients (nitrate, nitrite, ortho-phosphate, total phosphorus, and ammonia);
- Total organic carbon;
- Anions (bromide, chloride, fluoride, sulphate); and
- General water chemistry (alkalinity, hardness, conductivity, total suspended solids, total dissolved solids, and turbidity).

11.4.1 Surface Water Quality Testing

Parameters measured in the field (*i.e.*, *in situ* data) were within both the CCME and BCWQ guidelines at all sites (**Table 2**).

Table 2 *In situ* water quality results.

Site ID	Dissolved Oxygen (mg/L)	Temperature (°C)	Turbidity (NTU)	pH	Conductivity (µs/cm°)
F1	10.38	10.9	0.18	8.05	116.9
F2	11.45	7.6	1.07	7.80	99.8
F3	10.41	9.1	0.55	7.78	73.2
F4	10.31	8.4	0.21	7.71	68.2
B1	9.35	14.0	0.24	7.94	131.3

The results of the chemical analyses were for the most part within recommended guidelines for freshwater aquatic life, ***with the exception of total and dissolved arsenic***, which was over the recommended limit of 0.005 mg/L at all sites (range of 0.008 – 0.014 mg/L) except F4. … The remaining results of both the *in situ* and chemical analyses either met or exceeded both the CCME and BCWQ recommended guidelines for freshwater aquatic life. As noted above the slightly elevated arsenic levels likely reflect the influence the local geological conditions

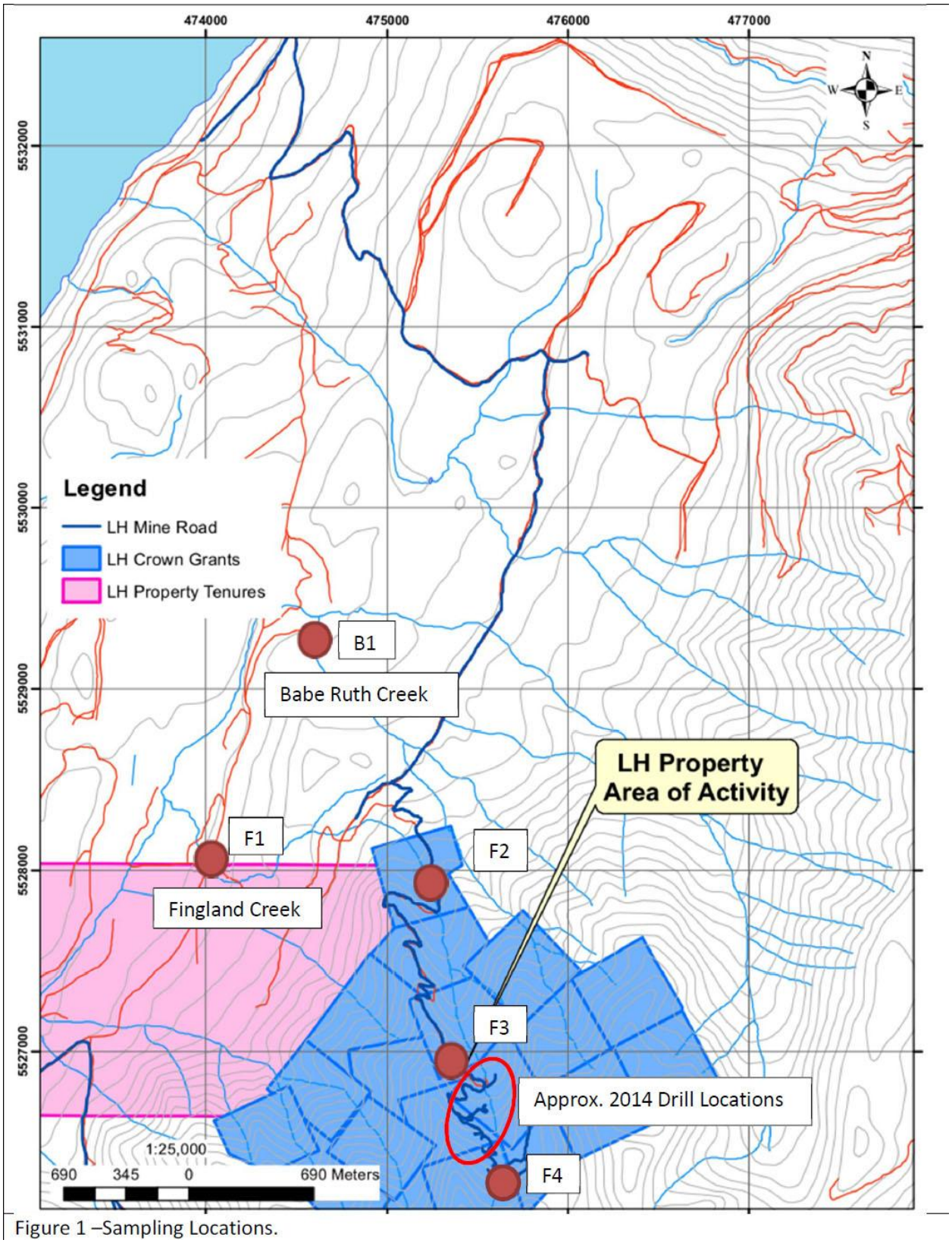

Figure 11 – Sample locations for Water Quality Survey with respect to tenures and Crown Grants.

12.0 DISCUSSION

The data from the 2014 program agree very well with data documented from previous programs in that surface geochemical results and alteration mapping from previous programs coincide with anomalies identified from the 2014 geophysical programs (Fig. 12 and 13).

The results of the Self-Potential survey, responding to the inherent conductivity of the underlying rocks and /or mineralization, agree very well with a magnetic anomaly delineated on the west side of the Fingland Creek basin and the previously identified "Ridge Zone". The SP data is interpreted to suggest a north-northeast trend culminating in the underground workings of the LH Mine. This same trend is apparent in the magnetic data and underlies a similar trend in the surface geochemical data. The same trend is, again, evident in the Apparent Chargeability data.

In addition, the SP data document another anomaly associated with a low in the Apparent Chargeability data at 1+15 E on Line 4N. These results suggest there may be multiple processes responsible for the anomalies.

The strong correlation between surface alteration, as mapped by Noranda (Mitchell 1988), Apparent Chargeability, surface geochemistry and the prominent Magnetic anomaly suggest multiple means of identifying additional anomalies for subsequent evaluation in future programs. Furthermore, the results of the IP / Magnetometer survey suggest future evaluation should include the west side of the "Ridge Zone", where deeper development of mineralization may not be manifest at surface and, therefore, the surface geochemistry.

Previous work has resulted in the interpretation that the LH Property is host to two styles of gold mineralization (Ash 2014). The first style of mineralization is mesothermal, gold-bearing quartz vein mineralization as evidenced by minor production on two historical underground levels in the former LH Mine. The second style is evidenced by the Ridge Zone mineralization, interpreted to represent gold-bearing, skarn style mineralization in which gold occurs with pyrrhotite, arsenopyrite and minor copper within silicified calc-silicate altered host rocks. This style of mineralization is interpreted to have greater potential for identification of a larger volume of mineralized rock, although with significantly lower grades than epithermal vein mineralization.

Skarn-style mineralization is interpreted to be related narrow felsic dykes originating from the underlying Nelson Batholith. The thermal gradient of the batholith and amount of hydrothermal fluids is interpreted to control the intensity and grade of mineralization. The most intense sulphide and gold mineralization lies within a restricted thermal zone above the intrusive. The boundaries of this thermal zone have yet to be determined.

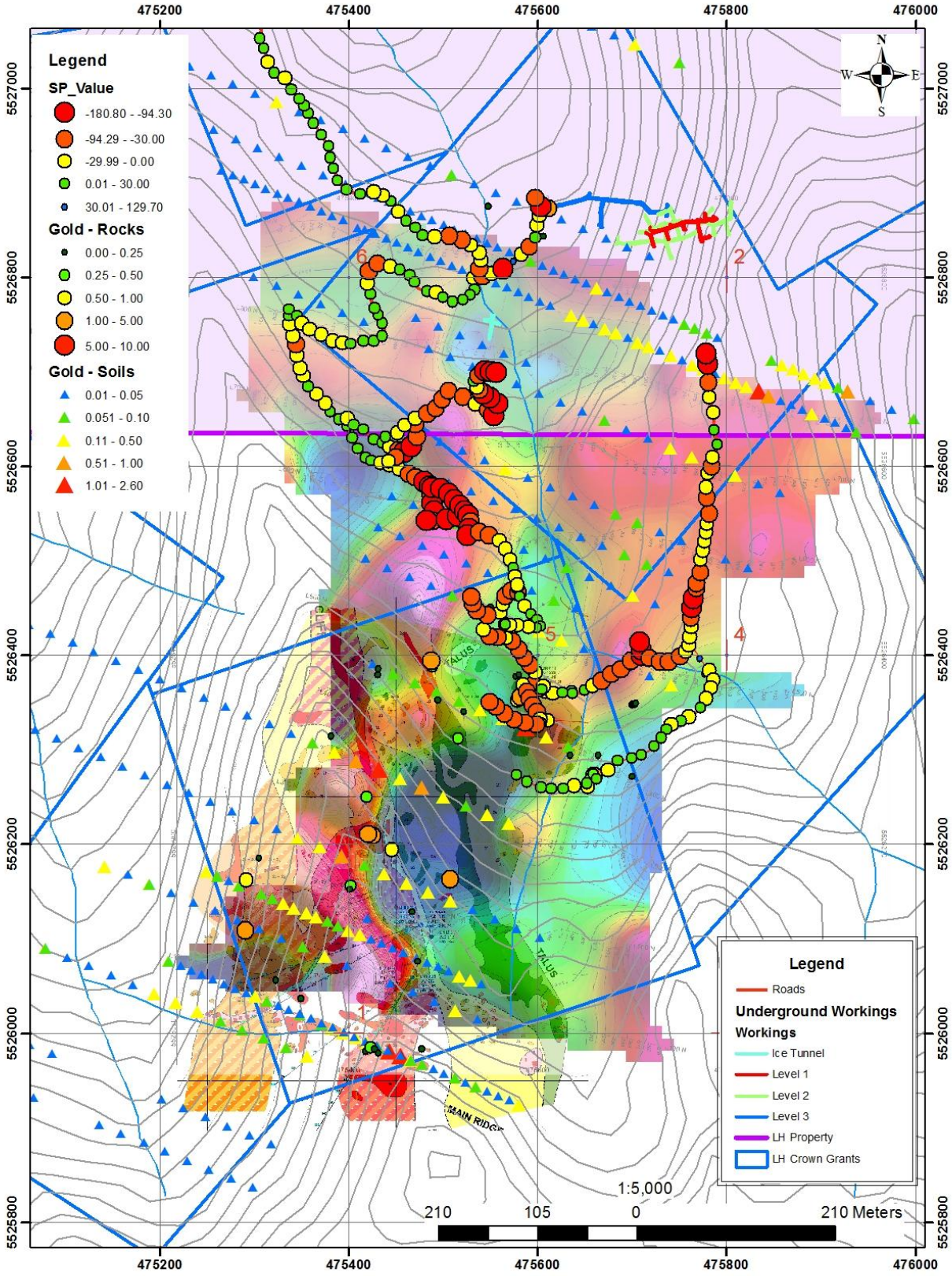

Figure 12 – Map showing compilation of 2014 program results relative to Magnetic map from geophysical survey.

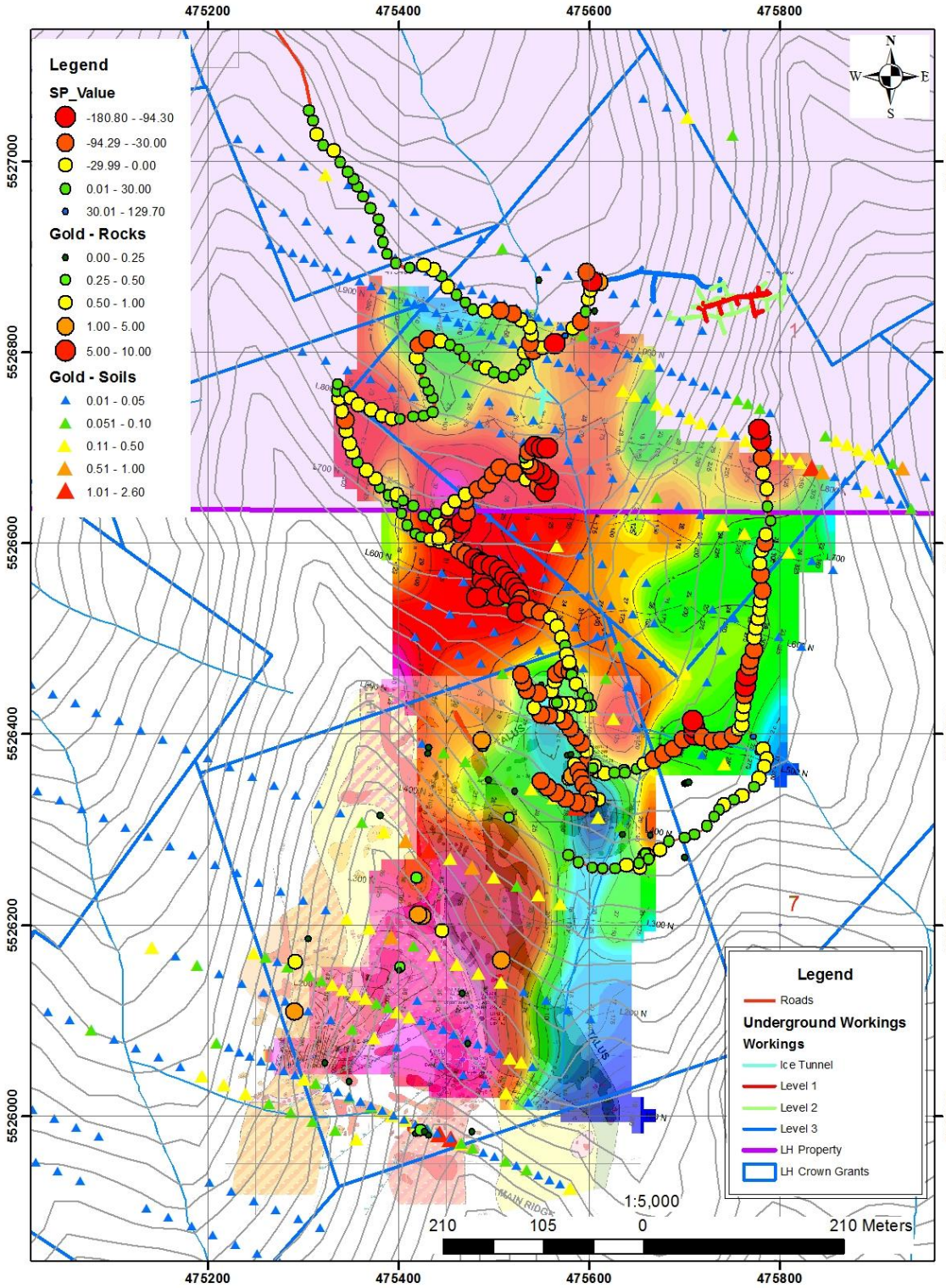
475200
475400
475600
475800
5527000
5526800
5526600
5526400
5526200
5526000
Legend
SP_Value
-180.80 - -94.30
-94.29 - -30.00
-29.99 - 0.00
0.01 - 30.00
30.01 - 129.70
Gold - Rocks
0.00 - 0.25
0.25 - 0.50
0.50 - 1.00
1.00 - 5.00
5.00 - 10.00
Gold - Soils
0.01 - 0.05
0.051 - 0.10
0.11 - 0.50
0.51 - 1.00
1.01 - 2.60
N
W
E
S
Legend
Roads
Underground Workings
Workings
Ice Tunnel
Level 1
Level 2
Level 3
LH Property
LH Crown Grants
1:5,000
210
105
0
210 Meters

Figure 13 – Map showing compilation of 2014 program results relative to Apparent Resistivity map from geophysical survey.

13.0 CONCLUSIONS

Work completed as part of previous exploration programs have documented attractive gold values, interpreted to reflect two styles of mineralization, mesothermal, gold-bearing quartz vein mineralization and gold-bearing, skarn style mineralization. The results of the 2014 program are interpreted to confirm previous interpretation of an association between gold and pyrrhotite mineralization. On the basis of a review of the results of the 2014 drill program and the resulting core, the author believes there is a strong correlation between pyrrhotite content and gold grade. Intervals of core having high pyrrhotite content appear to have coincident strongly elevated levels of gold

On the basis of this hypothesis, the strongly magnetic anomalies identified by the ground IP / magnetic survey are tentatively proposed to reflect host rocks having elevated levels of pyrrhotite. In addition to be being strongly magnetic, pyrrhotite is also highly conductive. As a result, the close spatial association between magnetic anomalies and SP anomalies (Fig. 13) is interpreted to confirm potential for elevated pyrrhotite content and, therefore, represent a high priority target for sub-surface drilling. This relationship is believed to be supported by coincident surface geochemistry and geophysics (SP, Magnetics and IP (particularly Apparent Chargeability).

If this interpretation is correct, the highest priority target identified to date is the southern portion of the Ridge Zone, where alteration mapping and ground geophysics, particularly magnetic and Apparent Chargeability, have delineated the strongest anomalies. The potential for gold is supported by the previous drill results of Noranda (1986 – 1988) and International Bethlehem Mining Corp. / Magnum Goldcorp Inc. in 2012. The highest gold value was 1.00 m grading 34.29 g/t in LH88-22, with multiple anomalous gold-bearing intercepts documented in holes LH88-22 to LH12-25.

14.0 RECOMMENDATIONS

1. Undertake further rehabilitation of the LH Mine Access Road, extending southeast from Branch 200 of the Hewitt Mine Road to facilitate access by 4WD trucks.

2. Continue compilation of available data for LH Property for previous programs. In particular, attempt to locate reports by Noranda for drilling the holes LH86-01 – 04) and the subsequent holes by, or on behalf of, Andaurex Resources (LH88-13 to LH88-24.

3. Undertake additional processing / interpretation of the results of both the Self-Potential and/or IP / Magnetometer survey.

4. Consider acquisition of additional Self-Potential data for the west side of the Fingland Creek Basin.

5. Consider acquisition of additional IP data within the existing grid with a tighter station spacing for better resolution of the resulting anomalies and/or IP / magnetometer data from farther west from the western margin of the currently surveyed grid.

15.0 REFERENCES

Ash, W.M. 2014. Preliminary Economic Assessment and Technical Report, Willa Max Project, Slocan and Revelstoke Mining Districts, British Columbia, Canada, NI 43-101 Technical Report by Ash and Associates Consulting Ltd. for Discovery Ventures Inc., dated May 26, 2014, amended June 20, 2014.

Ash, W.M. and Makepeace, D.K. 2012. Technical Report on the Willa Deposit, Slocan Mining District, British Columbia, Canada, NI 43-101 Technical Report for Discovery Ventures Inc., dated November 23, 2012.

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Mitchell, I. 1988. Report on Field Activities, June – September, 1987, L.H. Property, Slocan Mining Division, Assessment Report 16,738, filed January, 1988.

Reinert, R. 2014. LH Property – 2014 Surface Water Quality Sampling Program, Internal report for Magnum Goldcorp Inc. by Dillon Consulting Limited, dated September, 16, 2014.

Appendix A

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Richard T. Walker, of 1616 – 7th Avenue South, Cranbrook, BC, hereby certify that:

1) I am a graduate of the University of Calgary of Calgary, Alberta, having obtained a Bachelors of Science in 1986.

2) I obtained a Masters of Geology at the University of Calgary of Calgary, Alberta in 1989.

3) I am a member of good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

4) I am a consulting geologist with offices at 1616 – 7th Ave South, Cranbrook, British Columbia.

5) I am the author of this report which is based on a data compilation, preparatory physical work and a subsequent geophysical survey undertaken between April 1 and September 24, 2014.

6) I have no interest in Magnum Goldcorp Inc., nor do I expect to receive any.

Dated at Cranbrook, British Columbia this 18th day of December, 2014.

_____

Richard T. Walker, P.Geo.

Appendix B

Physical Work Form

REPORT OF PHYSICAL EXPLORATION AND DEVELOPMENT

Section 15 - Mineral Tenure Act Regulation

Mineral Titles and Policy Branch
Ministry of Energy and Mines

Print Form

Reset Form

1. EVENT NUMBER(S)	2. TENURE NUMBER(S) ON WHICH WORK WAS DONE	3. TYPE OF CLAIM
5523488	514022, 1022800, 1022814	(•) Mineral ( ) Placer

4. RECORDED HOLDER

LAST NAME	FIRST NAME	EMAIL
International Bethlehem Mining Corp.		vsamson@waterfrontgroup.com

ADDRESS	CITY	PROVINCE / STATE	COUNTRY
2489 Bellevue Avenue	West Vancouver	BC	Canada

POSTAL / ZIP CODE	TELEPHONE	CELL PHONE
V7V 1E1	(604) 922 - 2030	

5. OPERATOR (*leave blank if same as RECORDED HOLDER*)

LAST NAME	FIRST NAME	EMAIL
Magnum Goldcorp Inc.		vsamson@waterfrontgroup.com

ADDRESS	CITY	PROVINCE / STATE	COUNTRY
2489 Bellevue Avenue	West Vancouver	BC	Canada

POSTAL / ZIP CODE	TELEPHONE	CELL PHONE
V7V 1E1	(604) 922 - 2030	

6. REPORT AUTHOR (*leave blank if same as RECORDED HOLDER*)

LAST NAME	FIRST NAME	EMAIL
Walker	Rick	DynExplor@gmail.com

ADDRESS	CITY	PROVINCE / STATE	COUNTRY
1616 - 7 Avenue South	Cranbrook	BC	Canada

POSTAL / ZIP CODE	TELEPHONE	CELL PHONE
V1C 5V4	(250) 489 - 8908	

7. QUALIFICATIONS / EXPERIENCE OF WORKERS

Author - P.Geo. - 24 years as a geologist; field crew - between 3 - 10 years

8. NEW WORK DETAILS

(as required under Section 15 of the *Mineral Tenure Act Regulation*; see Information Updates 8 and 25 for further details)

Actual dates work was done:	Work details:				
May 29 - July 22, 2014		HAND WORK	☑	APPROVED *MINES ACT* PERMIT	☑
		MECHANICAL	☐	PERMIT NUMBER:	MX-5-755

9. OTHER SURFACE OR SUB-SURFACE INTERESTS

Are work site(s) on ground encumbered by private surface tenure? ( ) YES (•) NO

If yes, was the private land holder notified, pursuant to Section 19 of the *Mineral Tenure Act*? ( ) YES ( ) NO

Does the claim that the work was performed on overlap a crown granted mineral claim? (•) YES ( ) NO

If yes, what rights does the crown grant hold?

Sub-surface mineral rights

10. WORK ACTIVITY: i.e. Trenching, open cuts, pits, adits/ shafts, panning, sluicing, washing gravels, reclamation, other
(If further space is required please use the supplementary section attached)

WORK ACTIVITY	SITE #	TOTAL LENGTH (Metres)	TOTAL WIDTH (Metres)	DEPTH (Metres)	AMOUNT EXCAVATED (m3)	AMOUNT TESTED/ PRODUCED (m3)
Road Rehabilitation for Quad use	1	4,270.000	1.500	0.000	0.000	0.000
Line Cutting for Geophysical Survey	2	5,000.000	0.500	0.000	0.000	0.000

Are photos of the work site(s) attached? ○ YES ◉ NO

Are the work site(s) marked in the field? ◉ YES ○ NO

How are work site(s) marked?

Flagging on each station

	TOTAL LENGTH (Metres)	LINE INTERVAL (Metres)	STATION INTERVAL (Metres)
LINE CUTTING / GRID*	5,000.000	100.000	25.000
GROUND CONTROL SURVEY*			
PRECISION SURVEY - GPS*			
BCLS SURVEY*			

*Surveys, line cutting, and grids must be supported by a technical activity in Section 1 of the *Mineral Tenure Act Regulation*, paragraphs (b) to (h) of the definition of technical exploration and development.
Required: *Attach map at 1:5000 or more that shows ground control or grid lines.

11. GEOGRAPHIC LOCATION OF WORK SITE(S)

What is the geographic location of the work site(s)? **What are the directions to the claim and/or the work site(s) from the nearest town?** Please include all roads, paths, and trails to take to get to the work site(s).*

Latitude: 49.8936Longitude: -117.34

From community of New Denver, travel south for 4.0 km to Silverton, and a further 1.8 km south via paved Highway 6 to the Red Mountain Road on east side of highway. Follow Red Mtn Rd northeast for 1.6 km to the Hewatt Mine Road (east side of road). Follow Hewatt Mine Road approximately 5.5 km southeast to rehabilitated LH Mine Road along Fingland Creek (note: take right fork at each junction). Follow rehabilitated 4-wheel drive mine road approximately 2.8 km to 2014 area of activity on the LH Property.

Required: *Attach map at a scale of 1:10,000 or more detailed that accurately identifies the geographic location of the work site(s) relative to the claim boundaries.

GPS co-ordinates of work site(s):

SITE NUMBER	UTM ZONE	UTM X (Easting)	UTM Y (Northing)	LONGITUDE (deg°, min´, sec´´)	LATITUDE (deg°, min´, sec´´)
1	11	475211	5527207		
2	11	475550	5526675		
3					
4					
5					

Note: It is **not** a requirement that both UTM and Longitude/Latitude coordinates are entered. Please use the supplementary section if more room is needed.

12. COST STATEMENT (See Information Update No. 8 at www.MineralTitles.gov.bc.ca for details on how to complete this section)

A	B			C			D			E			F	
WORK ACTIVITY	*** TRAVEL / TRANSPORTATION** (people and equipment to and from worksite)			**LABOUR** cost per person (supervisor labourers, etc)			**EXPLORATION EQUIPMENT** (all found rate including operator)			**FOOD/ LODGING** (only include costs while working on claim)			**OTHER** (must be an applicable cost)	
	Type	km	Rate /km	Type	Hours	Rate /hr	Equipment	Hours	Rate /hr	Person	# Days	Rate /day	Description (include Rates)	Cost
Road Rehabilitation				Labour	626	$24.00							2 Quads ($50 / day each)	$2,400.00
Flagging Survey Grid				Supervisor	43	$37.50							Truck - 10 days at $50 / day	$500.00
Line-Cutting				Labour	128	$24.00							Truck - 14 days at $50 / day	$700.00
Road Rehabilitation				Supervisor	32	$37.50								
TOTALS						$20,908.50								$3,600.00

*** Travel / Transportation (cont'd)**

Was a helicopter required to access the property? ○ YES ◉ NO

*If your travel/transportation total was **standard (ground)** access, the allowable limit is capped at **20% of columns B,C,D,F*** $4,901.70

*If your travel/transportation total required **helicopter** access, the allowable limit is capped at **50% of columns B,C,D,F*** $12,254.25

TOTAL VALUE CLAIMED	
Total costs from columns C, D, E, F:	$ 24,508.50
Total allowable transportation costs:	$
Total value claimed as assessment:	$ 24,508.50

CERTIFICATION OF REPORT (Required)

By dating, and signing or typing my name, I hereby certify that the information contained in this report is a complete, true and accurate description of the work performed on the before-mentioned tenure(s), and understand that any false statement or report may be grounds for cancellation of my claim under Section 40 (1)(b) of the *Mineral Tenure Act*.

Rick Walker	2014 - 12 - 10
Signature of Recorded Holder/ Agent	Date (YYYY-MM-DD)

IMPORTANT:

The completed report MUST include required maps and attachments, such as photos.

This report must be submitted within 30 days of the date the exploration and development work was registered in the Mineral Titles Online system.

This report may be submitted by e-mail to our Mineral Titles e-mail address Mineral.Titles@gov.bc.ca or uploaded as a PDF file in Mineral Titles Online or you can mail the report directly to:

Mineral Titles
Ministry of Energy and Mines
300 - 865 Hornby Street
Vancouver, BC V6Z 2G3

SUPPLEMENTARY SECTION (Use this section if more space is required)

EVENT NUMBER(S):

Appendix C

Self-Potential Survey Results

Station	Easting	Northing	Correct_Easting	Correct_Northing	SP_Value	
Base1	475787	5526609	475787	5526609	16.1	
SP1	475790	5526623	475790	5526623	7.5	
SP2	475787	5526638	475787	5526638	9.6	
SP3	475786	5526657	475786	5526657	-7.7	
SP4	475782	5526673	475782	5526673	-7	
SP5	475781	5526689	475781	5526689	-52	
SP6	475780	5526708	475780	5526708	-95.5	
SP7	475778	5526719	475778	5526719	-125.6	
SP8	475783	5526599	475783	5526599	8.9	
SP9	475778	5526575	475778	5526575	35.3	
SP10	475781	5526558	475781	5526558	39	
SP11	475782	5526542	475782	5526542	51.4	
SP12	475779	5526525	475779	5526525	39.7	
SP13	475776	5526508	475776	5526508	43.5	
SP14	475771	5526498	475771	5526498	48	
SP15	475772	5526477	475772	5526477	3	
SP16	475765	5526464	475765	5526464	-21	
SP17	475764	5526444	475764	5526444	-1.5	
SP18	475763	5526426	475763	5526426	37.3	
SP19	475761	5526410	475761	5526410	44.6	
SP20	475761	5526383	475772	5526397	42.4	
SP21	475777	5526381	475777	5526381	45	
Base2	475609	5526372	475608	5526361	-17.6	
SP22	475588	5526365	475601	5526365	-32.7	
SP23	475577	5526374	475595	5526368	-58.1	
SP24	475577	5526385	475585	5526368	-1	
SP25	475594	5526365	475589	5526361	-34.5	
SP26	475595	5526360	475591	5526354	-46.3	
SP27	475599	5526347	475594	5526347	-66.4	
SP28	475601	5526336	475599	5526340	-47.5	
SP29	475608	5526334	475602	5526333	-16.7	
SP30	475613	5526324	475603	5526328	19.7	West edge of scree
SP31	475603	5526327	475598	5526326	-30.1	Strong rusty material in roadbed
SP32	475586	5526323	475587	5526328	-70.1	
SP33	475575	5526329	475575	5526332	-71.7	
SP34	475566	5526340	475565	5526339	-51.1	
SP35	475553	5526342	475556	5526345	-61.6	
SP36	475549	5526350	475549	5526350	-61	East edge of scree
SP37	475613	5526363	475616	5526359	-8.3	
SP38	475626	5526360	475626	5526360	7.6	
SP39	475636	5526363	475637	5526360	12.4	

SP40	475648	5526369	475650	5526363	8.5	
SP41	475657	5526369	475658	5526368	-10.4	
SP42	475666	5526379	475668	5526373	-45	East side of bridge
SP43	475676	5526380	475678	5526379	-54.7	
SP44	475684	5526386	475688	5526385	-56.9	
SP45	475694	5526395	475698	5526394	-69.8	
SP46	475712	5526392	475710	5526399	-107.8	
SP47	475710	5526406	475710	5526406	-110.7	
SP48	475708	5526414	475708	5526414	-115.8	Pad?
SP49	475718	5526394	475718	5526397	-74.7	
SP50	475729	5526393	475729	5526393	-34.4	
SP51	475736	5526398	475739	5526393	-30.8	
SP52	475746	5526398	475751	5526398	-31.8	
SP53	475758	5526398	475756	5526404	-24.7	
SP54	475760	5526410	475760	5526410	-18.6	
SP55	475752	5526423	475760	5526419	-9	
SP56	475759	5526434	475762	5526429	-18.8	
SP57	475754	5526452	475763	5526440	-72.4	
SP58	475755	5526464	475763	5526450	-134	
SP59	475758	5526462	475765	5526460	-125.4	
SP60	475764	5526467	475768	5526470	-41	
SP61	475762	5526474	475768	5526477	-61.4	
SP62	475767	5526486	475772	5526487	-42.3	
SP63	475767	5526501	475773	5526501	-25.3	
SP64	475762	5526512	475775	5526511	-10.4	
SP65	475766	5526522	475777	5526521	-6	
SP66	475773	5526531	475779	5526531	-8.4	
SP67	475779	5526539	475779	5526539	-18.6	Same location as yesterday
SP68	475775	5526564	475782	5526550	-65	
SP69	475780	5526559	475780	5526567	-36	
SP70	475775	5526579	475778	5526578	-27	
SP71	475780	5526592	475780	5526592	-27.4	
SP72	475784	5526600	475784	5526600	-38.1	
SP73	475785	5526609	475785	5526609	-1.3	Same as Base 1 Location
SP74	475606	5526374	475606	5526367	-22.8	Just below junction with spur road t and approximately 2.0 m NNW of
SP75	475598	5526385	475597	5526381	-29.2	
SP76	475591	5526371	475592	5526390	-30	
SP77	475586	5526397	475586	5526397	-48.1	
SP78	475578	5526407	475580	5526406	-44	
SP79	475569	5526413	475574	5526414	-43.6	

SP80	475567	5526418	475567	5526418	-28.3	Spur road to drill pad
SP81	475554	5526432	475557	5526419	-58.2	
SP82	475550	5526432	475549	5526419	-40	
SP83	475543	5526434	475542	5526427	-26.8	Road built in scree field
SP84	475557	5526432	475565	5526432	-26.3	
SP85	475556	5526437	475560	5526445	-25.9	Junction with Spur road
SP86	475543	5526441	475546	5526442	-46.5	
SP87	475533	5526442	475535	5526446	-60	
SP88	475526	5526456	475531	5526454	-64.1	
SP89	475524	5526466	475529	5526462	-67.4	End of Spur
SP90	475559	5526453	475563	5526455	-22.4	
SP91	475556	5526465	475565	5526463	-35.5	
SP92	475570	5526471	475572	5526468	-31.5	
SP93	475570	5526485	475579	5526466	-31.1	Junction with Main Trail
SP94	475570	5526485	475579	5526473	-27.1	
Base 3	475385	5526662	475380	5526657	1.1	
SP95	475390	5526650	475390	5526650	1	
SP96	475398	5526642	475398	5526642	10.2	
SP97	475404	5526627	475403	5526630	10.2	
SP98	475414	5526625	475410	5526619	26	
SP99	475419	5526613	475417	5526609	23.7	
SP100	475425	5526615	475424	5526606	22.9	
SP101	475438	5526622	475434	5526603	-8.6	
SP102	475446	5526616	475443	5526602	-5.9	
SP103	475454	5526600	475453	5526597	-14.8	Suspect Position
SP104	475460	5526580	475463	5526592	-51.5	Suspect Position
SP105	475466	5526567	475470	5526588	-69.6	
SP106	475477	5526576	475479	5526584	-104.6	
SP107	475478	5526560	475485	5526579	-111.4	Spur Road
SP108	475479	5526568	475486	5526570	-87.6	
SP109	475488	5526560	475488	5526561	-113.8	
SP110	475491	5526543	475490	5526552	-119.2	Suspect Position
SP111	475503	5526562	475494	5526543	129.7	Junction with Spur road to drill pad
SP112	475493	5526527	475489	5526542	-88.3	
SP113	475479	5526555	475482	5526542	-100.8	End of Spur
SP114	475510	5526550	475503	5526544	-152	
SP115	475517	5526546	475515	5526547	-165.7	
SP116	475492	5526604	475488	5526577	-117	
SP117	475497	5526578	475497	5526576	-137.2	
SP118	475505	5526564	475506	5526571	-135.2	
SP119	475510	5526561	475512	5526564	-140.2	
SP120	475512	5526554	475517	5526559	-116.4	

SP121	475518	5526548	475523	5526552	-98	Junction with Spur road
SP122	475525	5526544	475526	5526548	-107.6	
SP123	475531	5526535	475529	5526541	-72.8	Adjacent to drill pad
SP124	475521	5526533	475527	5526534	-127	Drill pad on Baseline
SP125	475520	5526534	475525	5526527	-130.2	
SP126	475539	5526522	475538	5526530	-76.3	
SP127	475548	5526527	475548	5526527	-53.5	
SP128	475559	5526521	475559	5526521	-24.1	
SP129	475566	5526513	475566	5526513	-9.3	
SP130	475571	5526501	475571	5526501	-12.2	
SP131	475573	5526483	475574	5526493	10	End of yesterday's line
SP132	475576	5526483	475576	5526483	-0.7	
SP133	475576	5526472	475579	5526475	-15.7	
SP134	475582	5526454	475581	5526462	1.5	
SP135	475586	5526467	475586	5526452	-3.9	Position Erratic
SP136	475593	5526443	475593	5526443	4	
SP137	475604	5526428	475599	5526437	23.6	
SP138	475605	5526424	475603	5526430	12.8	
SP139	475599	5526426	475598	5526429	26	
SP140	475590	5526430	475590	5526430	0	
SP141	475579	5526433	475579	5526431	-11.8	
SP142	475564	5526436	475571	5526432	-4	
SP143	475560	5526441	475566	5526433	8.8	Same station as yesterday
SP144	475604	5526364	475604	5526364	21.4	Base 2 location
SP145	475398	5526651	475398	5526651	-3.8	North edge of scree
SP146	475405	5526644	475405	5526644	25.8	Centre of scree
SP147	475415	5526639	475415	5526639	24.6	Southern third of scree
SP148	475426	5526631	475426	5526628	19.4	South edge of scree, fork in road
SP149	475435	5526620	475435	5526624	18.2	
SP150	475443	5526620	475443	5526620	-15	
SP151	475453	5526621	475452	5526617	-57.7	
SP152	475459	5526623	475458	5526615	-98.4	Intersection with trail
SP153	475450	5526609	475450	5526609	-82.1	
SP154	475442	5526605	475442	5526605	-15.6	road buried by new road above to w
SP155	475468	5526625	475466	5526621	-116.3	
SP156	475472	5526637	475472	5526631	-69.8	Line 7 + 69W
SP157	475464	5526641	475470	5526644	-57.7	Station 10 m above road
SP158	475439	5526631	475439	5526631	15.4	
SP159	475448	5526634	475452	5526636	-3	7 Sats; PDOP 2.9/2.3
SP160	475462	5526645	475459	5526643	-8.1	
SP161	475470	5526658	475470	5526651	-0.4	Intersection with upper road
SP162	475477	5526663	475483	5526656	-59.3	

SP163	475492	5526661	475492	5526661	-37.3	
SP164	475504	5526665	475499	5526671	-52.6	
SP165	475509	5526675	475506	5526679	-59.4	
SP166	475522	5526671	475521	5526674	-49.5	
SP167	475539	5526664	475534	5526666	-4.1	
SP168	475546	5526653	475547	5526659	-54.5	
SP169	475553	5526654	475553	5526654	-144.4	Above road
SP170	475557	5526666	475557	5526666	-180.8	
SP171	475544	5526669	475549	5526673	-174.8	
SP172	475542	5526676	475542	5526676	-106.5	
SP173	475535	5526677	475538	5526680	-74	
SP174	475535	5526684	475535	5526684	-25.2	
SP175	475527	5526688	475532	5526690	15.3	on Switchback
SP176	475538	5526695	475537	5526696	-56.3	
SP177	475546	5526700	475543	5526701	-105.1	Baseline
SP178	475548	5526687	475550	5526700	-139.2	
SP179	475549	5526692	475555	5526699	-94.3	
SP180	475375	5526667	475375	5526667	-10.5	Position Erratic
SP181	475366	5526676	475366	5526676	-22.3	
SP182	475357	5526685	475357	5526685	9.3	
SP183	475358	5526697	475352	5526695	-16.1	
SP184	475348	5526704	475348	5526704	-23.7	
SP185	475344	5526726	475345	5526717	-18.1	
SP186	475344	5526729	475344	5526729	-64.5	
SP187	475341	5526738	475341	5526738	-11	
SP188	475337	5526751	475337	5526751	-11.7	
SP189	475336	5526759	475336	5526759	7	
SP190	475335	5526771	475337	5526766	13	on Switchback
SP191	475347	5526762	475344	5526759	2.3	
SP192	475353	5526754	475350	5526752	-8.1	
SP193	475358	5526745	475358	5526745	-7.3	
SP194	475371	5526740	475371	5526740	-15.4	
SP195	475383	5526733	475383	5526733	-21.3	
SP196	475393	5526730	475393	5526730	-9	
SP197	475401	5526735	475402	5526729	17.8	
SP198	475411	5526729	475415	5526733	21	
SP199	475426	5526733	475426	5526733	18	Junction with drill road to south
SP200	475440	5526746	475435	5526738	19.6	middle of broad corner
SP201	475438	5526746	475436	5526751	15.4	
SP202	475431	5526760	475431	5526760	18.9	
SP203	475427	5526768	475427	5526768	17.3	
SP204	475423	5526782	475423	5526782	18.2	

SP205	475419	5526794	475419	5526794	-26.3	south side of broad corner
SP206	475423	5526801	475421	5526807	-54.8	
SP207	475431	5526811	475430	5526814	-38.8	
SP208	475443	5526808	475444	5526812	-5.5	
SP209	475454	5526808	475454	5526808	11.5	
SP210	475468	5526807	475464	5526803	16.6	
SP211	475476	5526793	475469	5526795	19.8	
SP212	475490	5526783	475483	5526785	19.8	
SP213	475493	5526788	475492	5526783	-4.8	
SP214	475499	5526775	475500	5526778	2.1	
SP215	475510	5526774	475510	5526774	13.3	
Base 4	475532	5526799	475532	5526799	-6.1	
SP216	475533	5526787	475533	5526787	3	
SP217	475530	5526778	475528	5526781	15.5	East side of bridge
SP218	475521	5526776	475521	5526776	17	West side of bridge; end of yesterda
SP219	475542	5526805	475541	5526801	-92	Spur road to LH U/g workings
SP220	475550	5526806	475550	5526804	-11.2	
SP221	475559	5526809	475563	5526809	-111.9	
SP222	475574	5526817	475574	5526817	44	
SP223	475574	5526836	475583	5526825	-24.4	
SP224	475585	5526833	475591	5526832	-63	
SP225	475594	5526847	475597	5526842	9.3	
SP226	475599	5526855	475599	5526855	-17.9	
SP227	475607	5526875	475601	5526865	-18.4	
SP228	475603	5526874	475603	5526874	-108	End of road
SP229	475597	5526884	475597	5526884	-36.2	
SP230	475538	5526809	475538	5526809	-32.2	Main Road
SP231	475538	5526832	475539	5526818	-23	
SP232	475540	5526841	475538	5526826	-7	
SP233	475531	5526842	475529	5526834	-6.5	
SP234	475520	5526840	475520	5526840	-35	
SP235	475506	5526839	475507	5526844	-30.8	
SP236	475495	5526852	475490	5526843	-0.5	
SP237	475478	5526845	475478	5526845	9.6	
SP238	475474	5526855	475470	5526852	12.3	
SP239	475461	5526860	475461	5526860	10.4	
SP240	475452	5526869	475452	5526869	-3	
SP241	475445	5526880	475445	5526880	19.6	
SP242	475438	5526893	475436	5526886	-12.4	
SP243	475426	5526896	475426	5526890	-19.6	
SP244	475417	5526895	475412	5526888	10.4	
SP245	475397	5526893	475397	5526893	18.6	

SP246	475388	5526908	475388	5526903	8.3	
SP247	475384	5526915	475384	5526915	15.1	
SP248	475386	5526932	475380	5526927	8.8	
SP249	475379	5526939	475379	5526939	18.7	
SP250	475371	5526954	475371	5526951	16.8	
SP251	475363	5526963	475363	5526963	28.7	
SP252	475357	5526973	475357	5526973	12.7	
SP253	475355	5526989	475353	5526982	9	
SP254	475347	5526989	475347	5526989	5.9	
SP255	475339	5526999	475339	5526999	1	
SP256	475332	5527011	475332	5527011	-5.5	
SP257	475321	5527017	475321	5527017	26.6	Centre - southern slide
SP258	475314	5527028	475314	5527028	-10.2	
SP259	475310	5527042	475310	5527042	17.3	
SP260	475306	5527053	475306	5527053	13	
Base 5	475782	5526384	475782	5526384	-0.2	North side of creek, same as SP 21
SP261	475786	5526374	475786	5526374	-8.9	
SP262	475778	5526368	475783	5526365	-5	East edge of scree
SP263	475778	5526354	475778	5526354	-12	
SP264	475768	5526348	475773	5526344	3.6	
SP265	475760	5526335	475760	5526335	-14.9	
SP266	475751	5526331	475751	5526331	1	
SP267	475741	5526326	475741	5526326	-2.5	
SP268	475736	5526321	475736	5526321	5	
SP269	475731	5526313	475731	5526313	0.6	
SP270	475723	5526314	475723	5526303	1.3	
SP271	475709	5526301	475710	5526294	14.5	
SP272	475700	5526291	475700	5526291	22.2	
SP273	475684	5526288	475684	5526288	9.4	
SP274	475674	5526278	475674	5526278	-3.4	
SP275	475661	5526274	475662	5526269	7.9	
SP276	475652	5526265	475652	5526265	18.4	
SP277	475639	5526262	475639	5526262	-10.1	
SP278	475627	5526259	475627	5526259	18	
SP279	475614	5526262	475614	5526259	22.6	
SP280	475603	5526260	475603	5526260	24.8	
SP281	475589	5526266	475589	5526266	13	
SP282	475578	5526273	475578	5526273	5.5	

Appendix D

Geophysical Logistics Report

Peter E. Walcott and Associates

Appendix E

Water Quality Report

Dillon Consulting Limited

Appendix F

Statement of Expenditures

STATEMENT OF EXPENDITURES

The following expenses were incurred on the LH Property for the purposes of data compilation, preparatory physical work and a geophysical survey between April 1 and September 24, 2014.

STORAGE FACILITY	
Crescent Valley – 2012 Drill core – 1 year pre-paid	$ 1,236.99
GEOLOGICAL CONSULTING	
Dynamic Exploration Ltd – Data Compilation and initial property reconnaissance	$29,725.00
ACCOMMODATION (at 90%)	$ 1,209.62
EQUIPMENT RENTAL (at 90%)	$ 3,928.50
TRAVEL (at 90%)	$ 2,004.36
MISCELLANEOUS SUPPLIES (at 90%)	$ 352.54
Physical Work	
Road Rehabilitation - Line-cutting	$18,096.00
Road Rehabilitation – Supervision	$ 1,200.00
Flagging Survey Grid– survey grid (at 40%)	$ 1,612.50
Truck Rental – 24 days at $50 / day	$ 1,200.00
Quad Rental – 2 quads at 24 days at $50 / day	$ 2,400.00
Ground Geophysical Survey	
Peter E. Walcott and Associates Ltd. (at 35%)	$13,637.05
Water Quality Report	
Dillon Consulting Limited	$ 5,393.00
REPORT/REPRODUCTION	
R. T. Walker, P.Geo.: 4.0 days @ $800/day	$ 3,200.00
Total	**$ 85,195.56**

Appendix G

Program Related Documents

A LOGISTICS REPORT

ON

INDUCED POLARIZATION & MAGNETIC SURVEYING

LH PROPERTY
NEW DENVER AREA, BRITISH COLUMBIA
SLOCAN MINING DIVISION
49 ^{o} 53'N, 117 ^{o} 20'W

Claims Surveyed

NTS 82F/084

FOR

MAGNUM GOLDCORP INC.

West Vancouver, British Columbia

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Coquitlam, British Columbia
November 2014

TABLE OF CONTENTS

APPENDIX

ACCOMANPANYING MAPS

INTRODUCTION.

Between July 23rd, and August 1st, 2014, Peter E. Walcott & Associates Limited undertook induced polarization (IP) and magnetic surveying for Magnum Goldcorp Inc. over its LH Property, British Columbia.

The induced polarization surveying was conducted utilizing the pole-dipole technique measuring the 1st to 9th separations utilizing a 25 metre dipole separation.

Magnetic surveying was also carried out on the same traverses using GPS enabled magnetometers sampling at 12.5 meter intervals.

9 north-south traverses were completed for a total of some 5 kilometers of induced polarization and magnetic surveying completed.

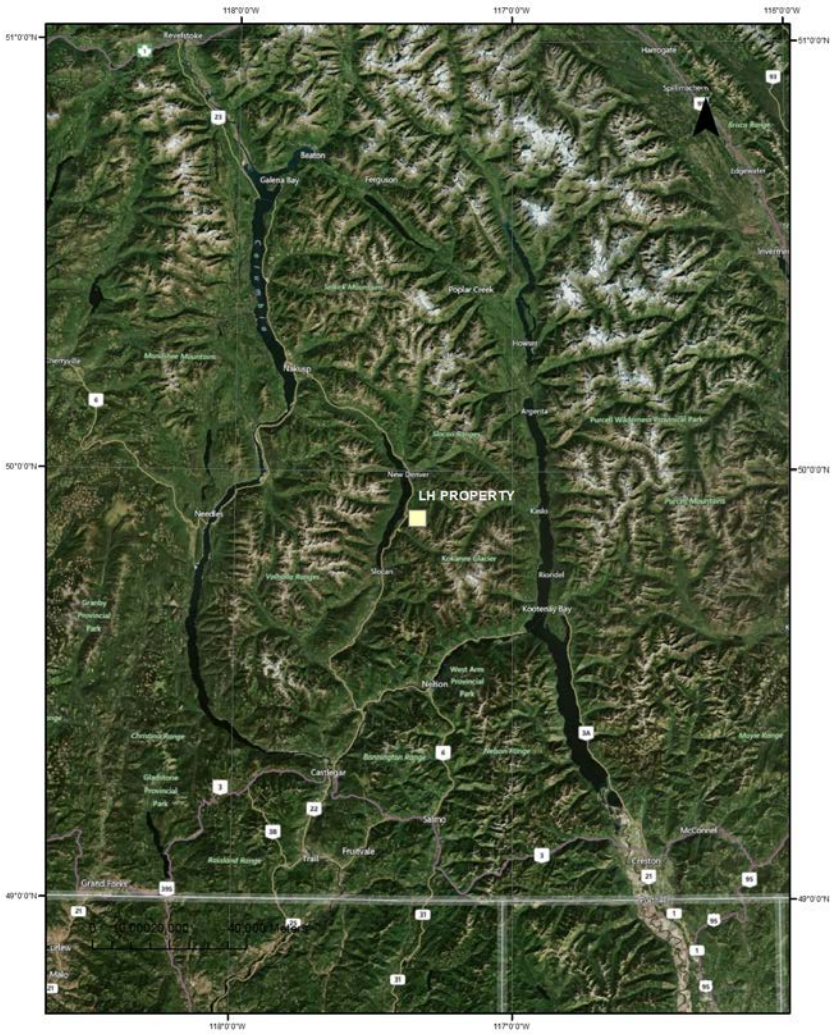
Survey lines were positioned and established by Magnum Goldcorp Inc.

In addition to the aforementioned surveying, horizontal positions of the line stations were measured a Garmin handheld GPS unit.

PROPERTY LOCATION AND ACCESS

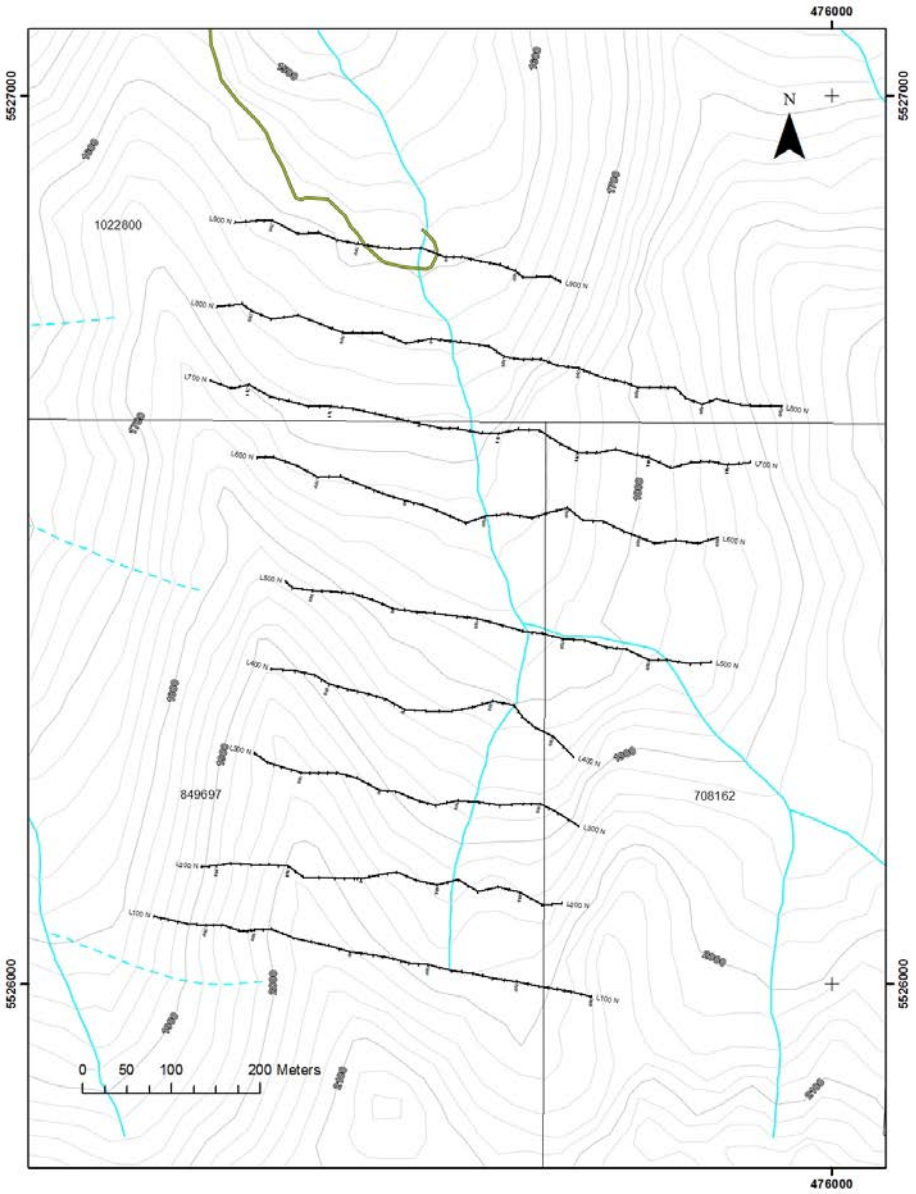
The LH property is situated some 11.5 kilometres south-east of the community of New Denver, British Columbia.

Access to the survey area, was then gained via truck, ATV and then by foot to the survey area.



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Claim and Line Location Map

SURVEY SPECIFICATIONS.

The Induced Polarization Survey.

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Instrumentation GDD of Quebec, Canada.

The system consists basically of three units, a receiver (GDD), transmitter (GDD) and a motor generator (Honda). The transmitter, which provides a maximum of 5.0 kw d.c. to the ground, obtains its power from a 7.5 kw 60 c.p.s. alternator driven by a Honda 14 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2, the primary voltages (V) appearing between any two potential electrodes, P_1 through P_5, during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The majoring of the surveying was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1, and the potential electrodes, P_1 through P_5, are moved in unison

SURVEY SPECIFICATIONS cont'd

along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2, is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse. On this survey a 50 metre dipole separation was utilized.

On this survey a total of some 5 kilometres of survey traverses were completed.

Magnetic Survey.

The magnetic survey was carried out using a GSM 19 proton precession magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla. Corrections for daily variations in the earth's field – the diurnal – were made by comparison with a similar instrument set up at a fixed location – the base – where recordings were made at 10 second intervals. Measurements were made along the traverse at 12.5 meter intervals.

Horizontal control.

The horizontal positions of the stations were recorded using a Garmin GPSmap 60CSx.

Data Presentation.

The data are presented as individual pseudo section plots of apparent resistivity and apparent chargeability at a scale of 1:2,500 generated using Geosoft Oasis Montaj.

APPENDIX

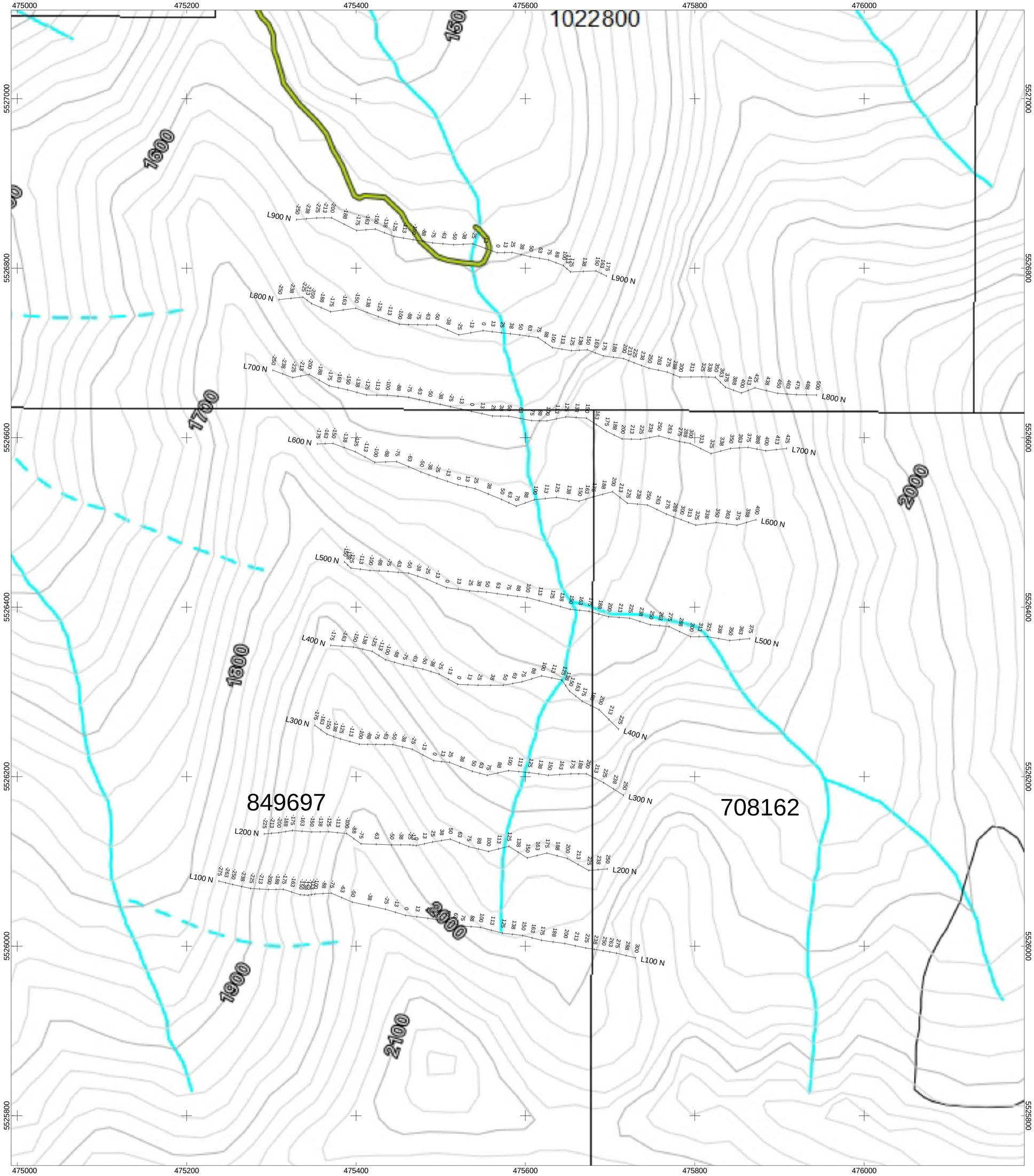
COST OF SURVEY

Peter E. Walcott & Associates Limited undertook the induced polarization survey on a daily basis providing a five man crew, IP equipment, GPS, altimeters and a 4x4 truck at $3450.00 per day. Magnetic surveying was undertaken at $175.00 per kilometer while 3 ATV's were provided at $125 per unit per diem.

A Mobilization charge of $4500 was billed, along with $2988.00 for accommodation and fuel. Thus the total cost of services provided was $38,963.00.

PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates
M. Welz	Geophysicist	111-17 Fawcett Rd. Coquitlam, B.C. V3K 6V2	July 23rd –August 1st, 2014
M Magee	Geophysical Operator	"	“
O. Janout	“	"	“
C. Young	Geophysical Assistant	"	“
K. Wiebe	“	"	“



Scale 1:2500

50 0 50 100 150

(meters)

NAD83 / UTM zone 11N

MAGNUM GOLDCORP INC.
INDUCED POLARIZATION SURVEY **CLAIM AND LINE LOCATION**
LH PROPERTY NEW DENVER AREA JULY 2014
PETER E. WALCOTT & ASSOCIATES LIMITED

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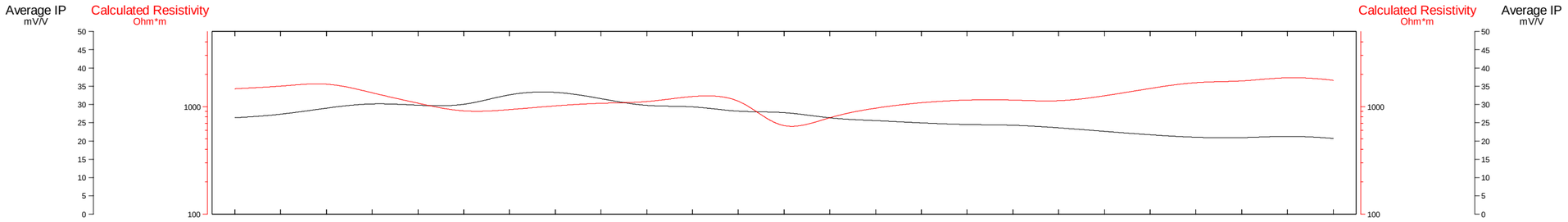
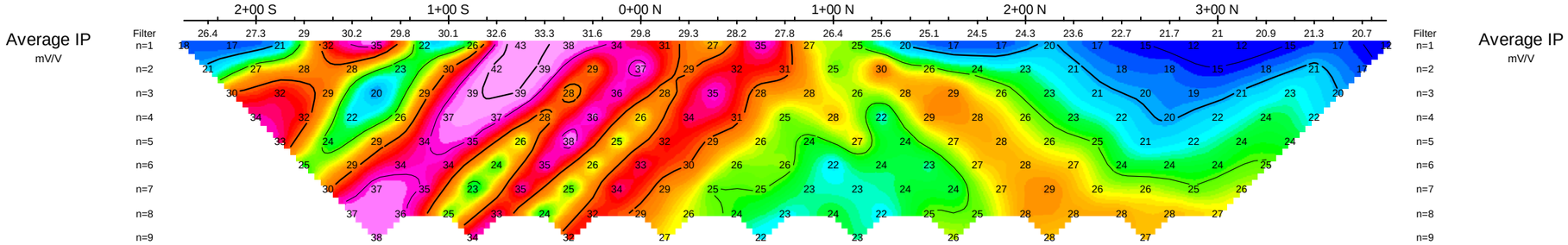
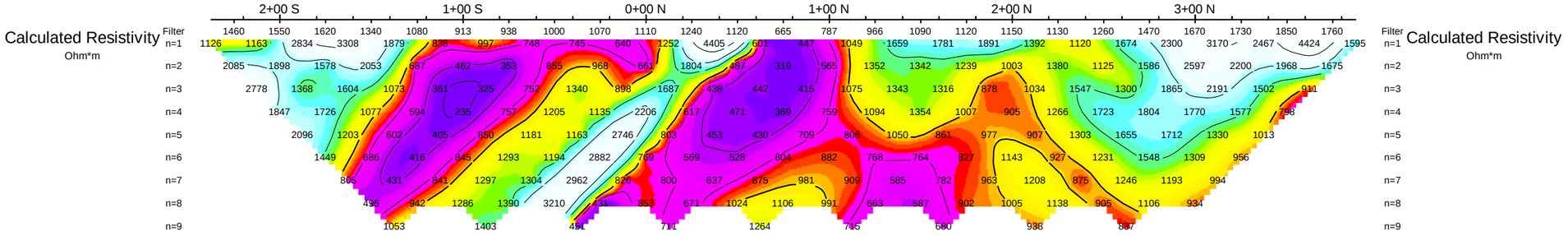
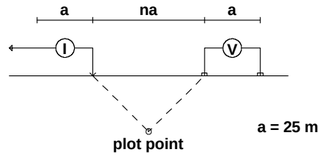






Pole-Dipole Array



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Elrec Pro Rx

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Operators: M.W., M.M.

Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

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(meters)

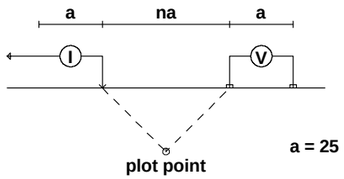
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

1+00 N

Pole-Dipole Array



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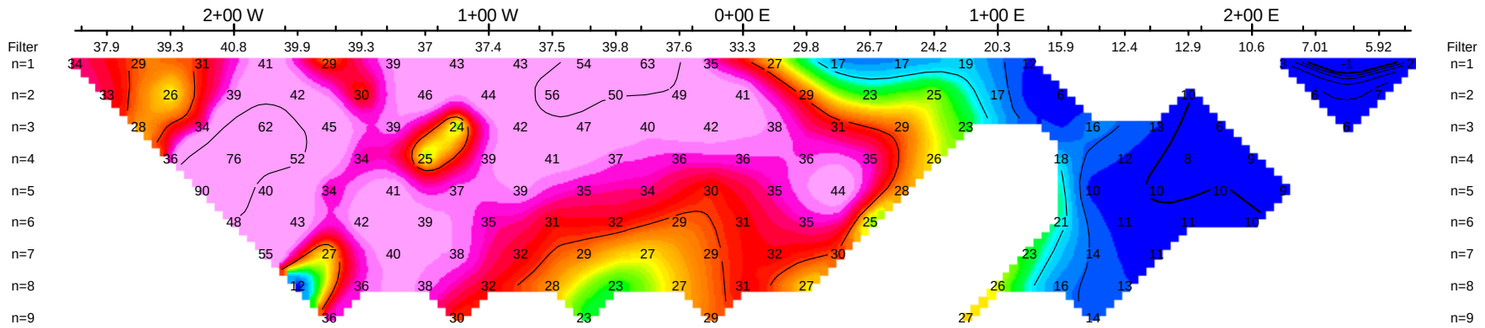

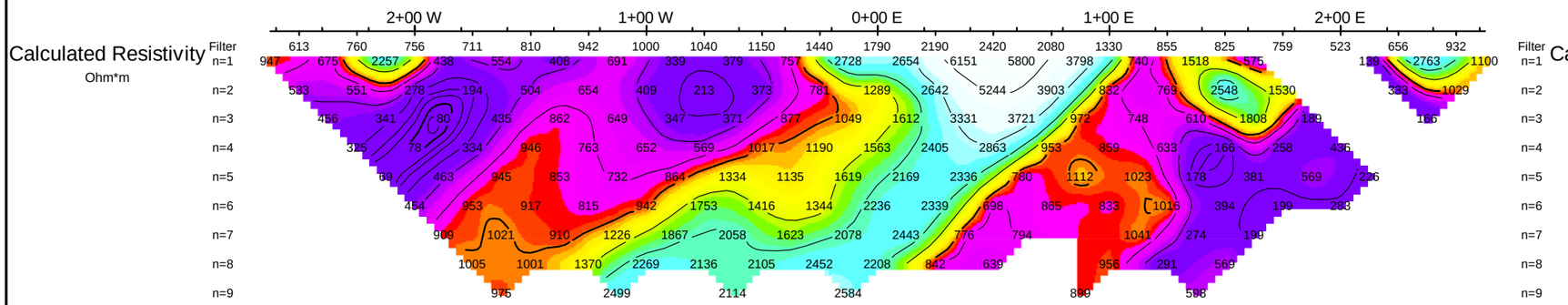

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Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

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(meters)

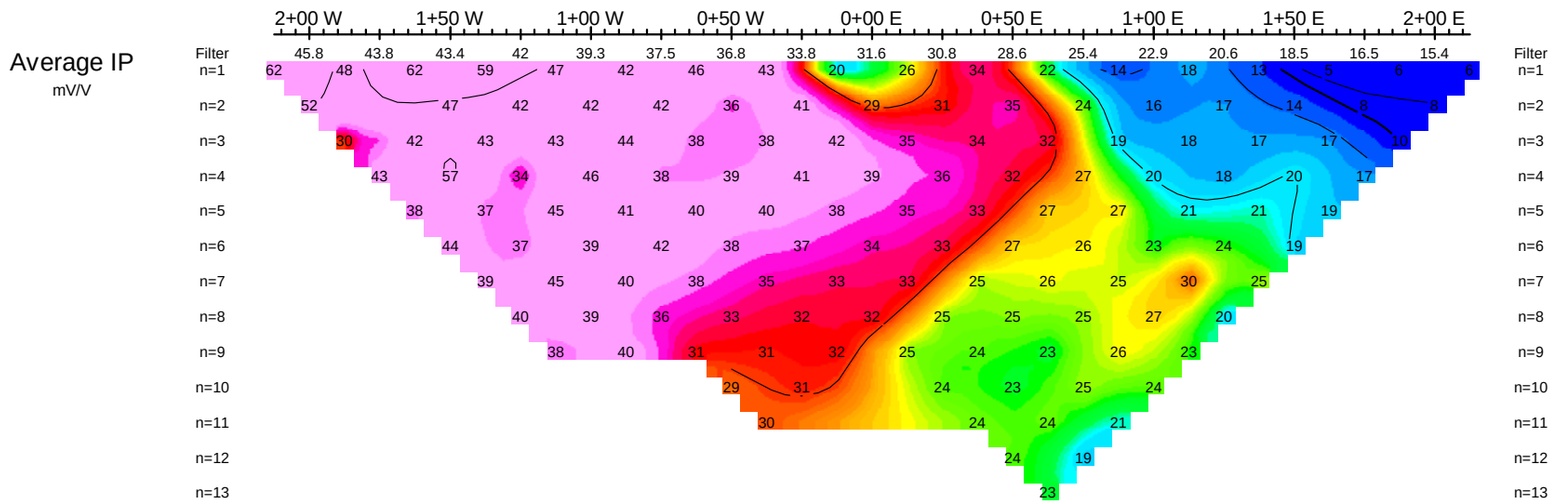
MAGNUM GOLDCORP INC.

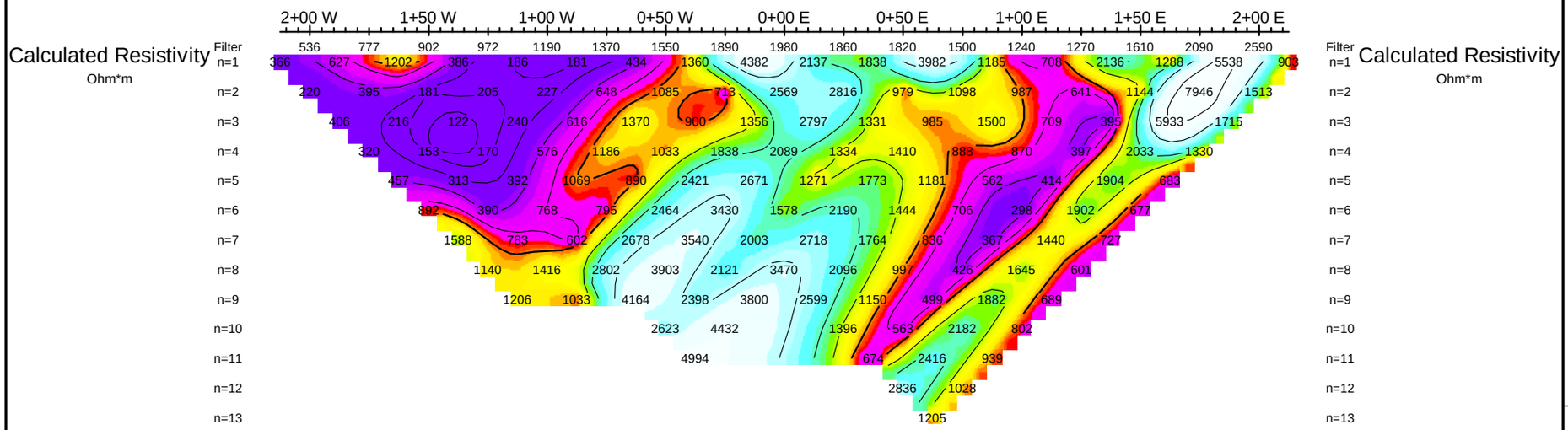
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

2+00 N





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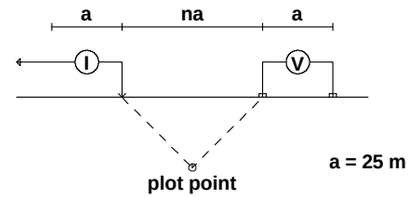

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Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

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(meters)

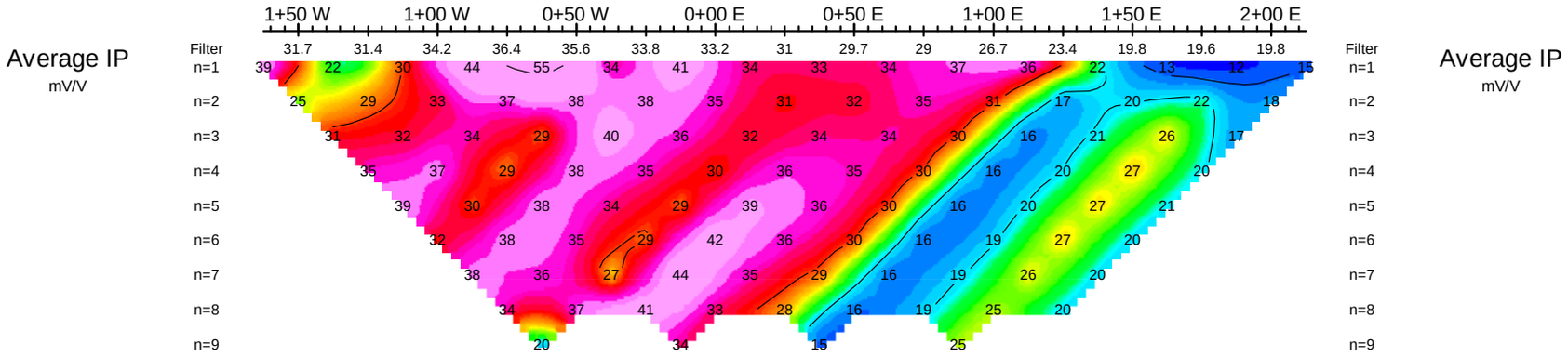
MAGNUM GOLDCORP INC.

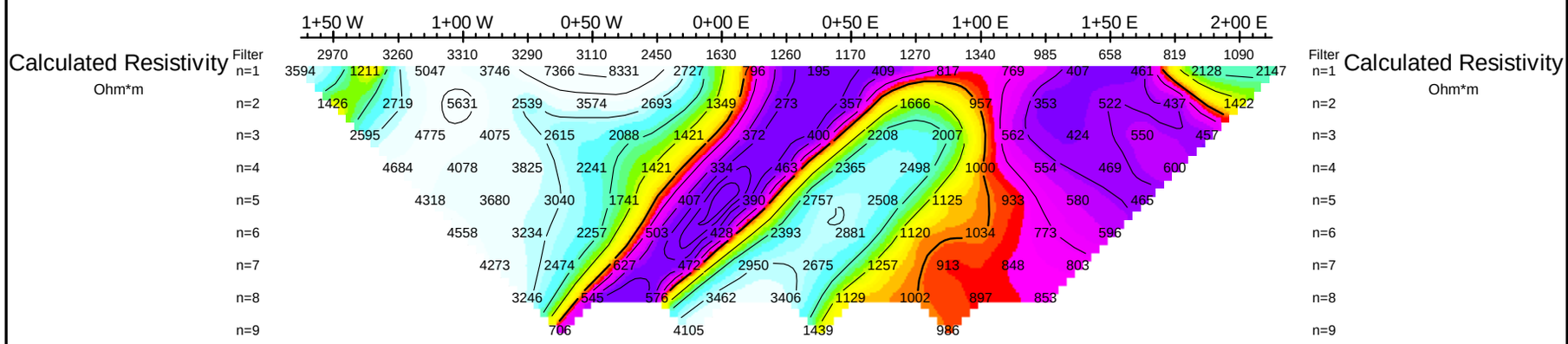
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

3+00 N





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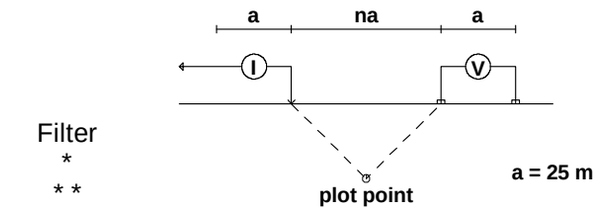

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Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

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(meters)

MAGNUM GOLDCORP INC.

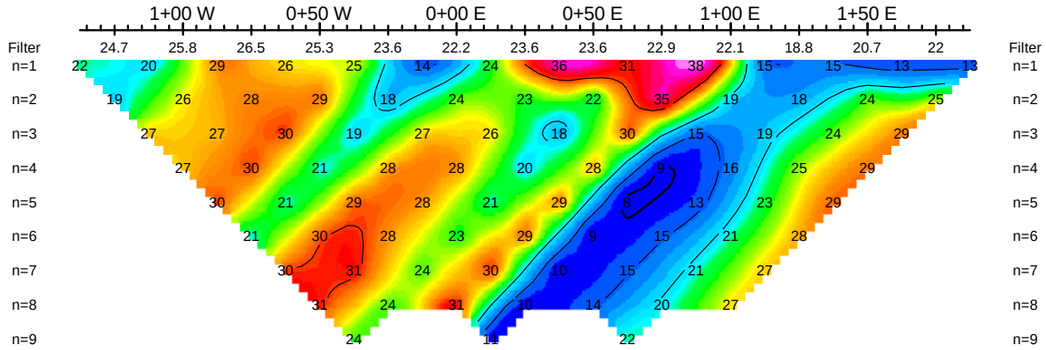
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

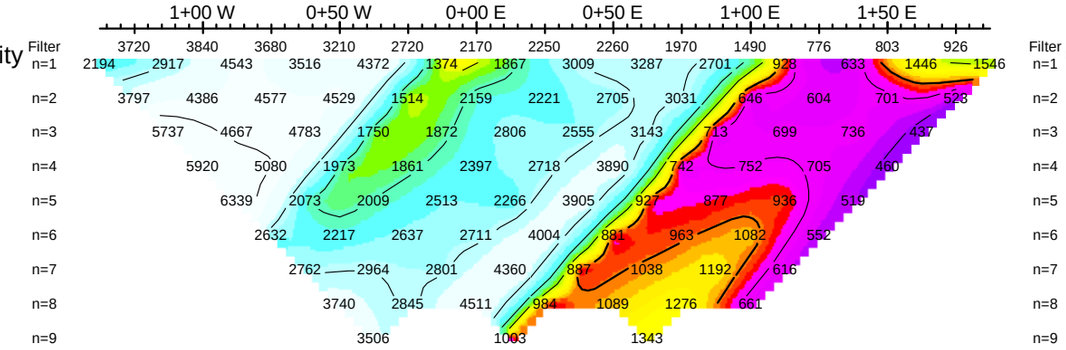
4+00 N

Average IP
mV/V



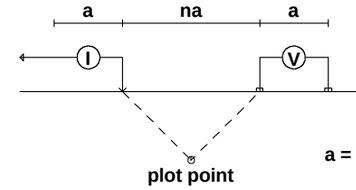
Average IP
mV/V

Calculated Resistivity
Ohm*m



Calculated Resistivity
Ohm*m

Pole-Dipole Array



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Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

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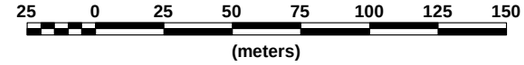
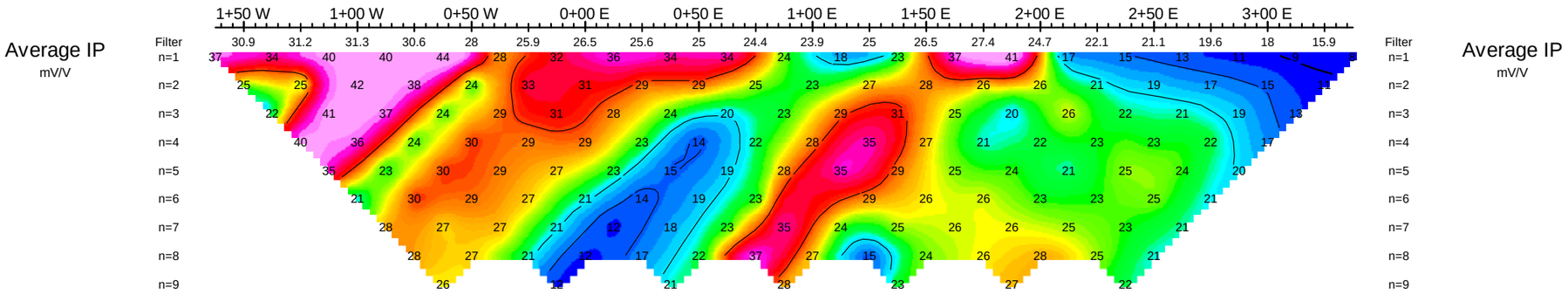


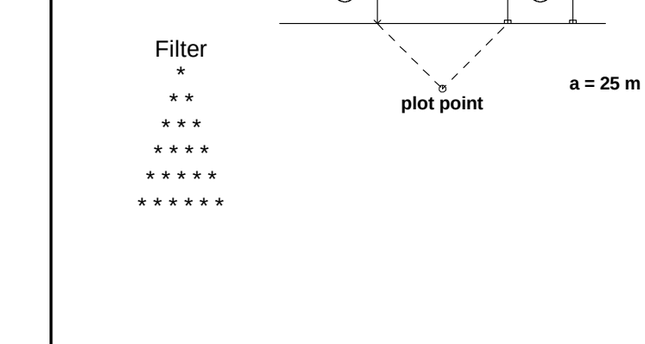
MAGNUM GOLDCORP INC.

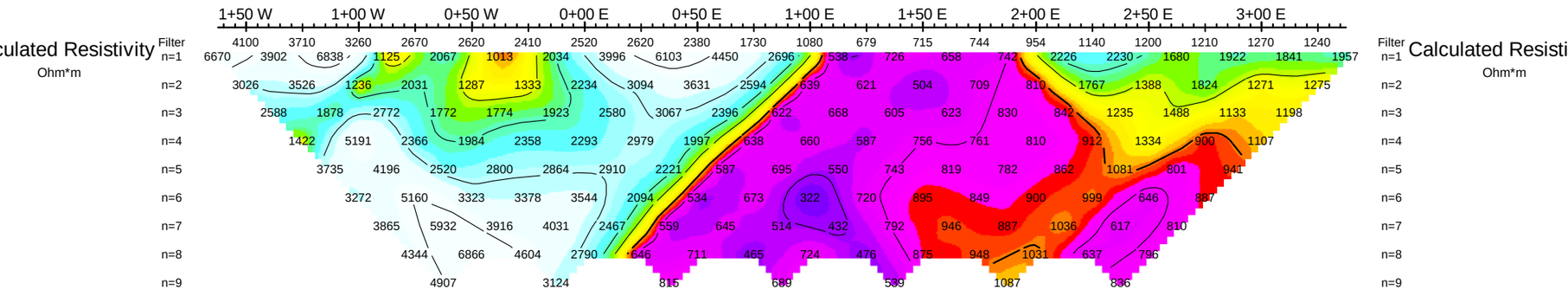
INDUCED POLARIZATION SURVEY
LH PROJECT

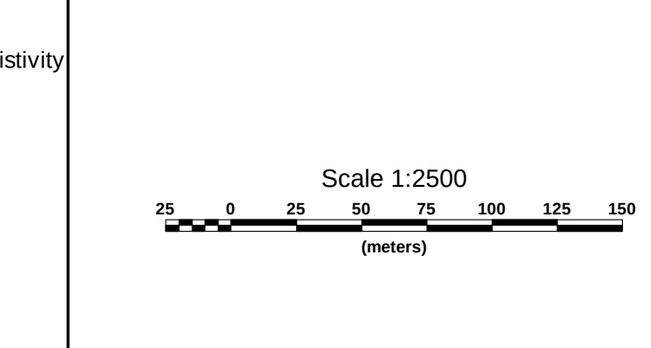
Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED









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Pole-Dipole Array

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Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

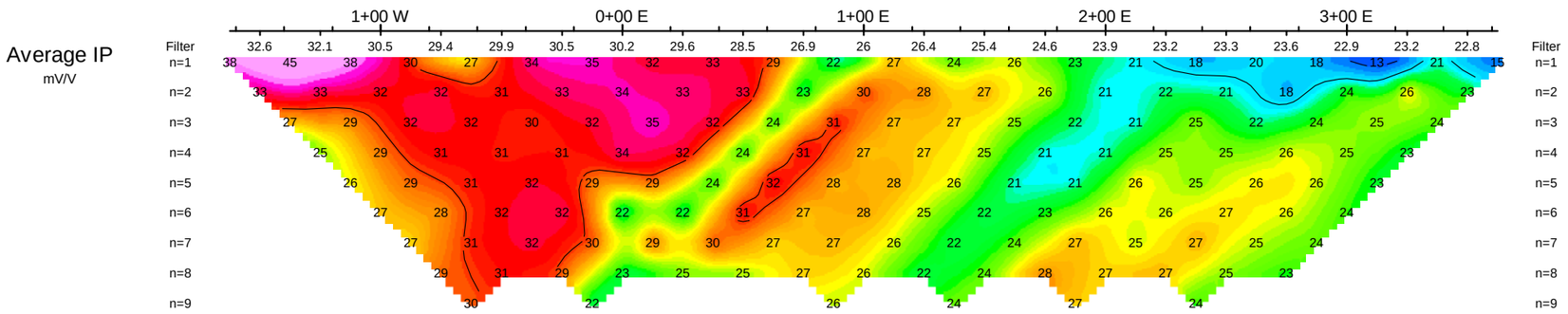
MAGNUM GOLDCORP INC.

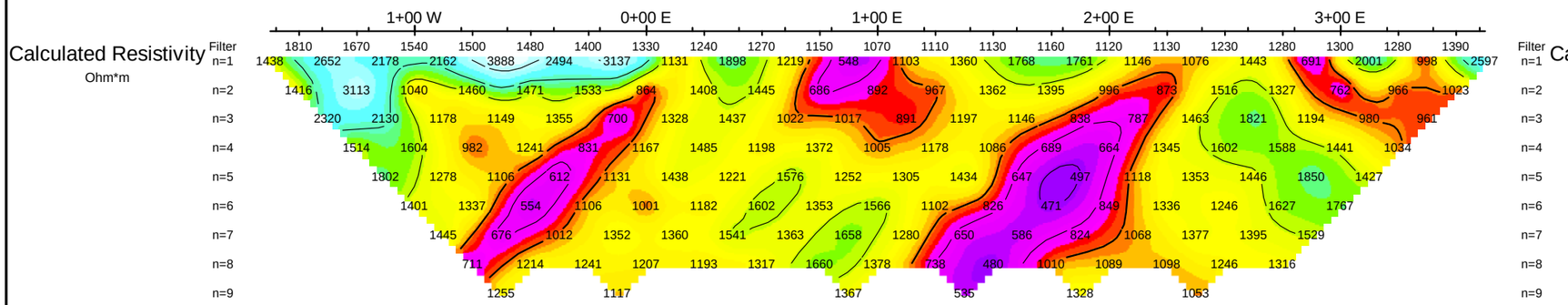
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

6+00 N





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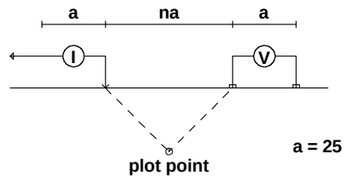

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Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

MAGNUM GOLDCORP INC.

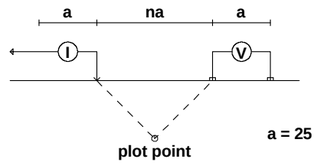
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

7+00 N

Pole-Dipole Array



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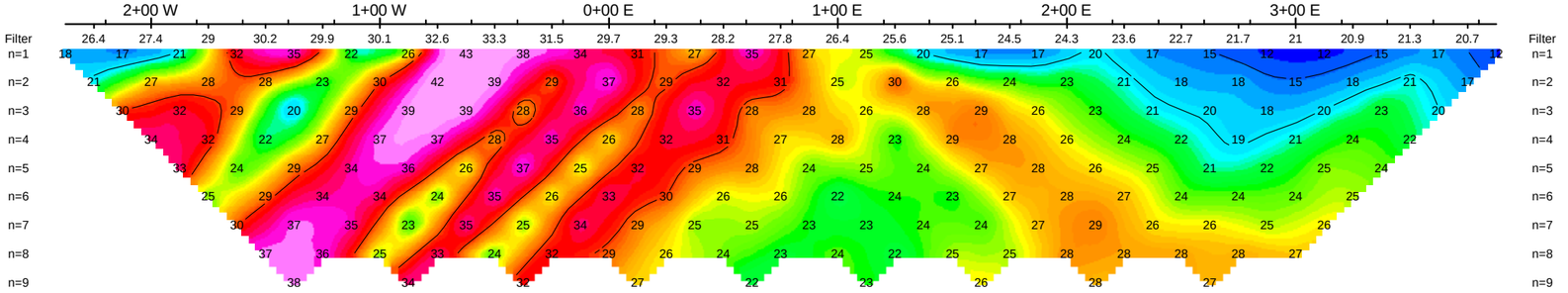
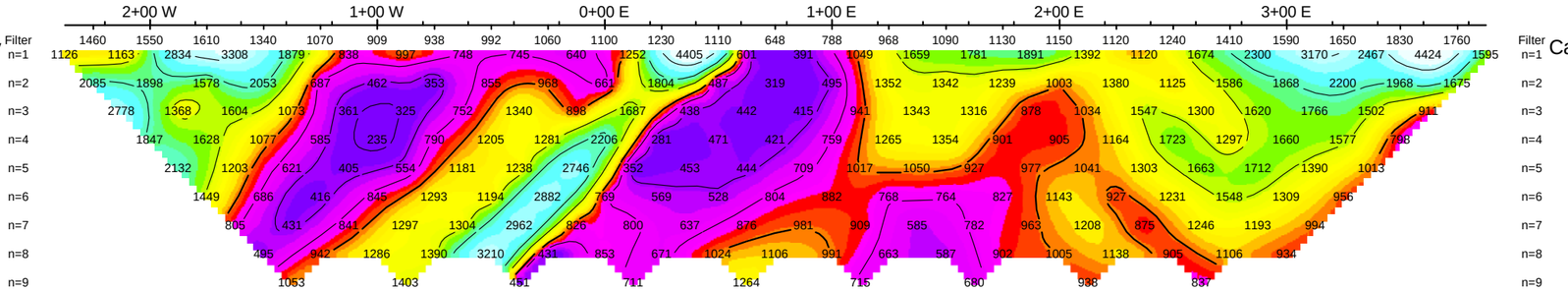
Average IP
mV/V



Average IP
mV/V

Calculated Resistivity
Ohm*m



Calculated Resistivity
Ohm*m

Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

MAGNUM GOLDCORP INC.

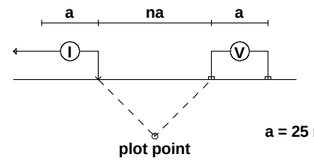
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

8+00 N

Pole-Dipole Array



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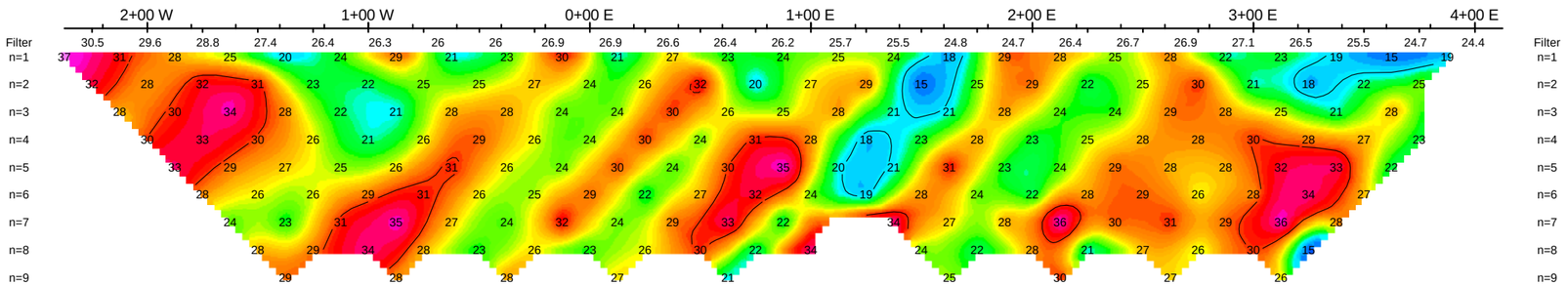
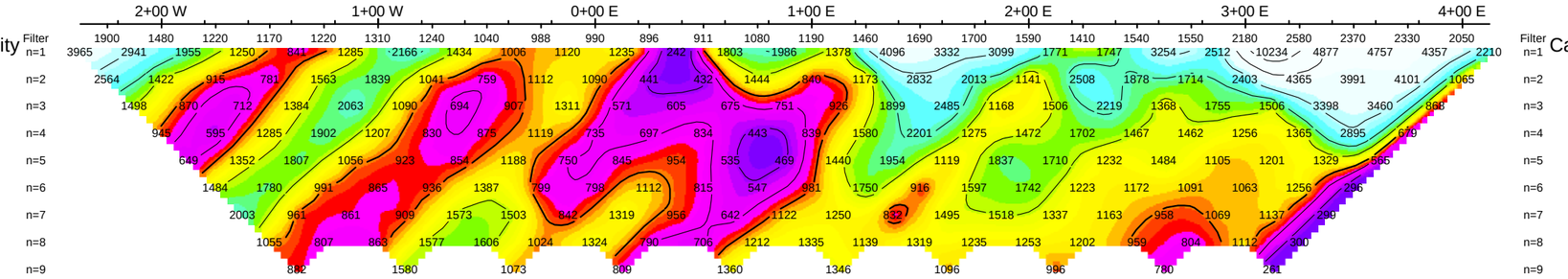
Average IP
mV/V



Average IP
mV/V

Calculated Resistivity
Ohm*m



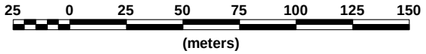
Calculated Resistivity
Ohm*m

Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500



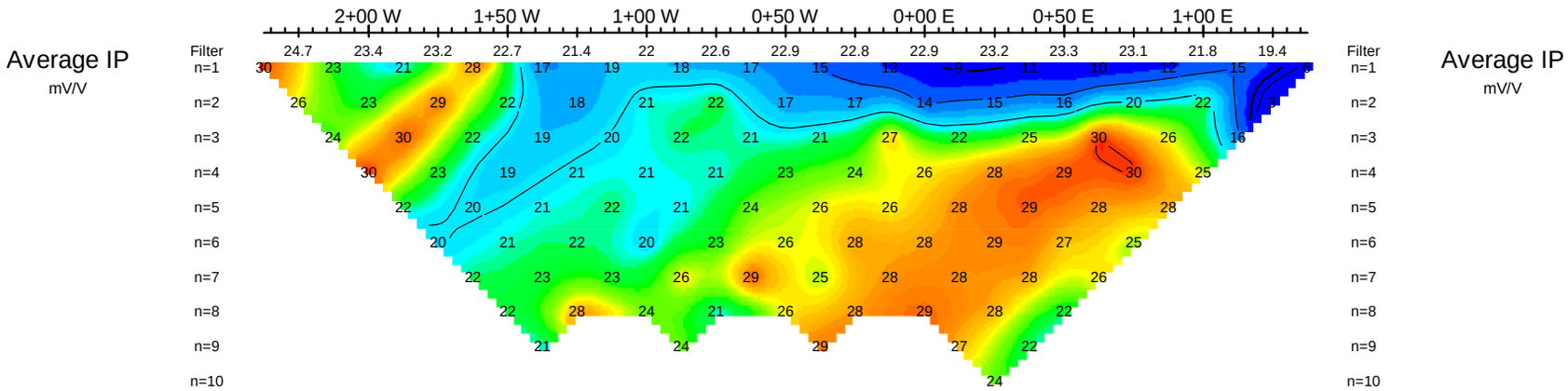
MAGNUM GOLDCORP INC.

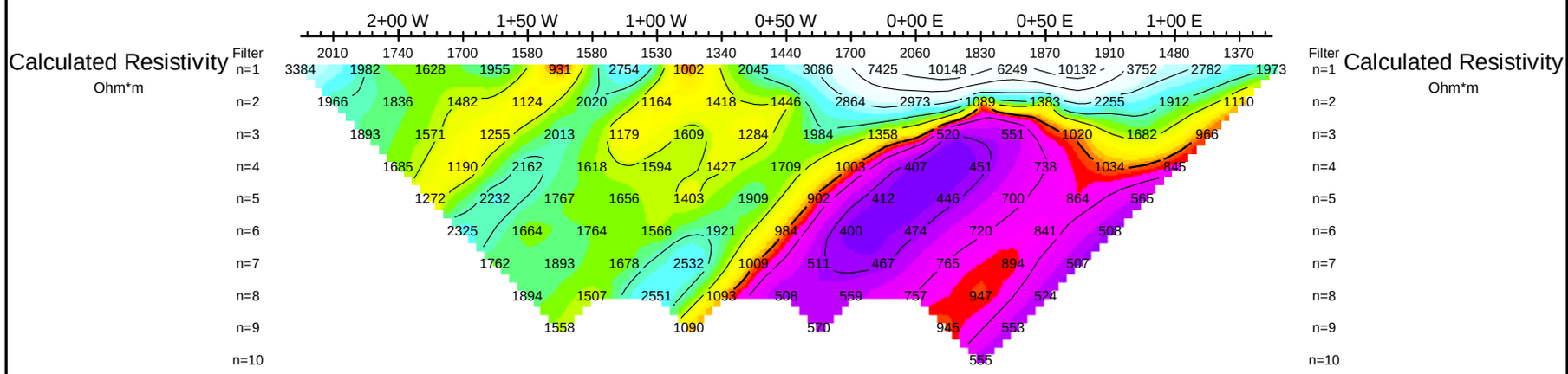
INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

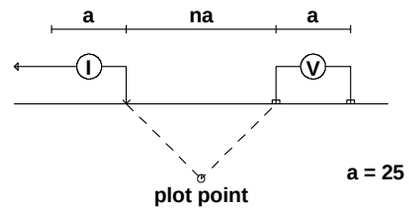
PETER E. WALCOTT & ASSOCIATES LIMITED

9+00 N





Pole-Dipole Array



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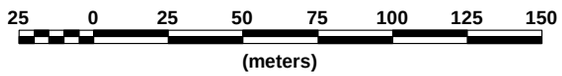
Instruments: GDD 3.6kW Tx
Elrec Pro Rx

Frequency: 0.125 Hz.
Operators: M.W., M.M., O.J.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:2500

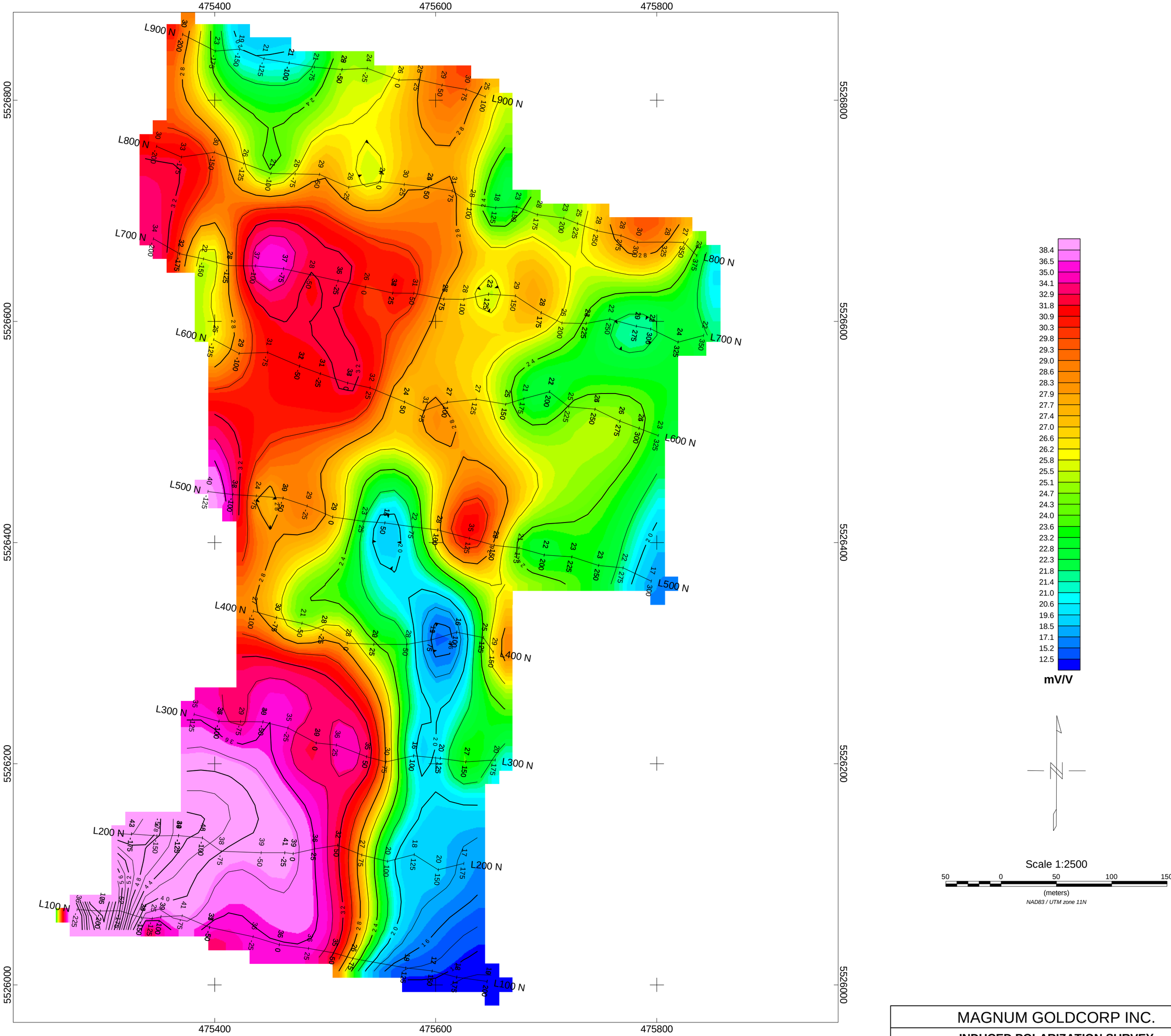


MAGNUM GOLDCORP INC.

INDUCED POLARIZATION SURVEY
LH PROJECT

Date: JULY 2014
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED



MAGNUM GOLDCORP INC.

INDUCED POLARIZATION SURVEY
CONTOURS OF APPARENT CHARGEABILITY (mV/V)
N=4

LH PROPERTY
NEW DENVER AREA
JULY 2014

PETER E. WALCOTT & ASSOCIATES LIMITED

475400 475600 475800

5526800 5526600 5526400 5526200 5526000

L900 N L800 N L700 N L600 N L500 N L400 N L300 N L200 N L100 N

4361.1
3397.4
2833.1
2511.3
2161.8
1910.1
1765.0
1603.2
1484.6
1394.6
1335.1
1256.9
1192.7
1117.9
1049.0
985.5
924.3
864.5
822.6
759.4
685.7
601.2
518.9
431.5

ohm-m

Scale 1:2500

50 0 50 100 150

(meters)

NAD83 / UTM zone 11N

MAGNUM GOLDCORP INC.

INDUCED POLARIZATION SURVEY
CONTOURS OF APPARENT RESISTIVITY (ohm-m)
N=4

LH PROPERTY
NEW DENVER AREA
JULY 2014

PETER E. WALCOTT & ASSOCIATES LIMITED

475400
475600
475800
5526800
5526600
5526400
5526200
5526000
L900 N
L800 N
L700 N
L600 N
L500 N
L400 N
L300 N
L200 N
L100 N
55689.8
55569.7
55520.9
55499.2
55493.6
55489.4
55485.8
55481.9
55478.0
55473.6
55469.4
55465.8
55460.6
55456.3
55449.4
55444.0
55438.1
55430.9
55424.6
55419.1
55413.8
55407.7
55402.9
55397.9
55392.8
55388.9
55384.6
55380.4
55375.5
55370.4
55363.5
55353.8
55341.1
55322.4
55298.6
55265.0
55222.6
55116.5
nT
Scale 1:2500
50 0 50 100 150
(meters)
NAD83 / UTM zone 11N

MAGNUM GOLDCORP INC.

GROUND MAGNETIC SURVEY
CONTOURS OF TOTAL FIELD INTENSITY (nT)

LH PROPERTY
NEW DENVER AREA
JULY 2014

PETER E. WALCOTT & ASSOCIATES LIMITED

MAGNUM GOLDCORP INC.
LH Property

2014 Surface Water Quality Sampling Program

September 16, 2014

Submitted to:
Magnum Goldcorp Inc.
2489 Bellevue Avenue
West Vancouver, BC
V7V 1E1

Submitted by:
Dillon Consulting Limited
3820 Cessna Drive, Suite 510
Richmond, BC
V7B 0A2

Dillon Project No.: 14-9882

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APPENDICES

1.0 INTRODUCTION

Dillon Consulting Limited (Dillon) was retained by Magnum Goldcorp Inc. to implement a preliminary surface water quality sampling program at selected locations at the LH Property near Silverton, BC. The water quality program was designed to meet two objectives:

1. Determine baseline surface water quality conditions as part of on-going exploration activities.

2. Generate water quality data that can be easily integrated into other project permitting activities if and when required (e.g., *Mines Act*, Project Environmental Assessment).

This summary report includes descriptions of the sampling locations (including a photographic record), an overview of the sampling methodology, and a brief overview summary and discussion of the results.

1.1 Sample Locations

The LH property; herein referred to as the Study Area is located outside of the community of Silverton, BC. Potential sample sites were identified prior to the site visit to gain a representative sampling of watercourses upstream and downstream of proposed drilling activities; however, final sample locations were selected based on overall site conditions and accessibility.

Each of the sampling locations are described in **Table 1** and shown in **Figure 1**. Photos of each of the sample locations are also provided in **Appendix A**.

Table 1. Water quality sampling location descriptions and UTM coordinates.

Site ID	Watercourse	Location Description	UTM Coordinates
F1	Fingland Creek	At crossing with Red Mountain Road; downstream of proposed drilling activities	11 U 0474049; 5528047
F2	Fingland Creek	Immediately upstream of temporary crossing	11 U 0475288; 5527779
F3	Fingland Creek	Upstream of bridge crossing; downstream of proposed drilling activities	11 U 0475529; 5526782
F4	Fingland Creek	Past boulder field; upstream of proposed drilling activities	11 U 0475672; 5526365
B1	Babe Ruth Creek	Upstream of confluence with Vevey Creek; 100 m up LNH access road	11 U 0474625; 5529332

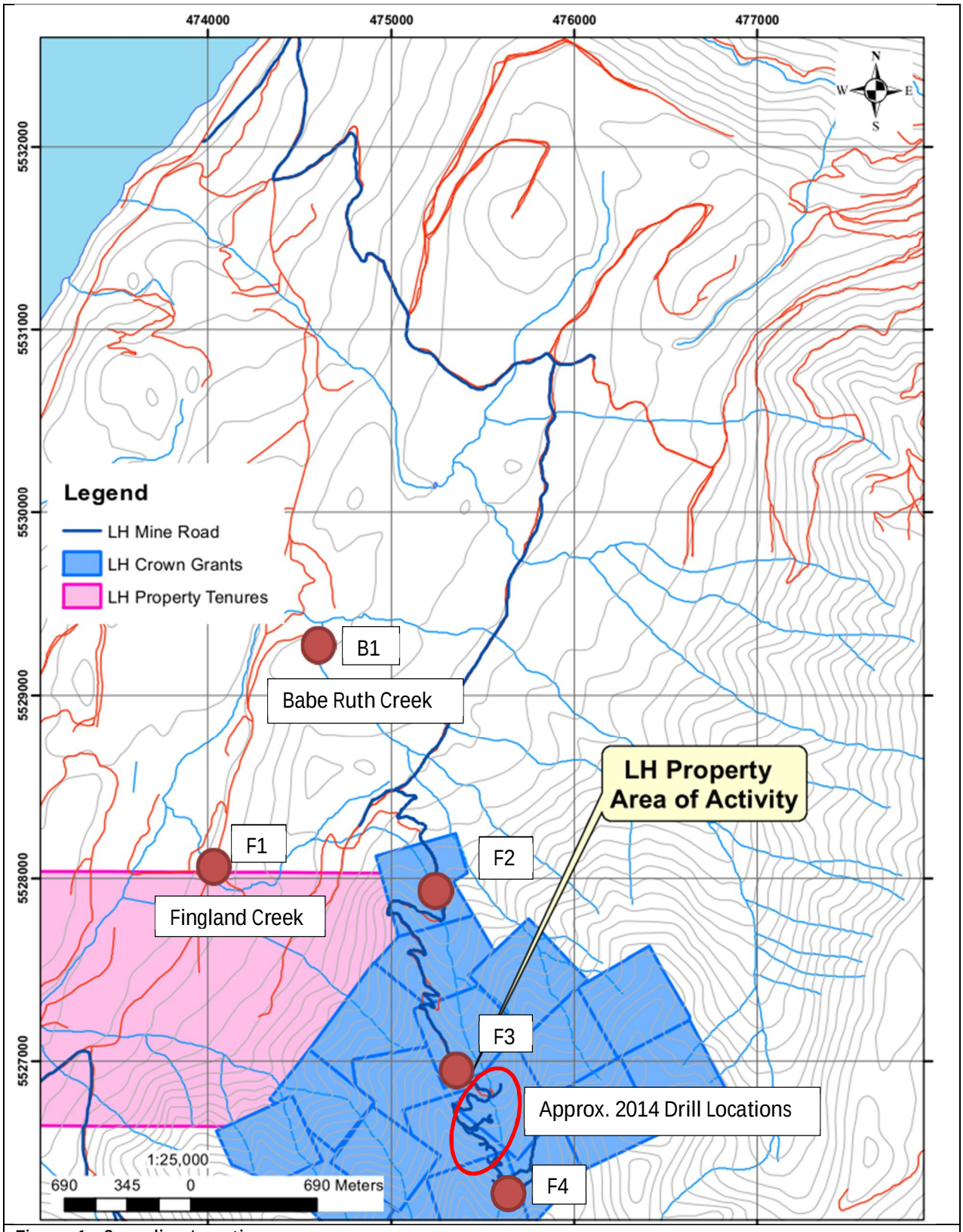

Figure 1 –Sampling Locations.

2.0 METHODOLOGY

The surface water quality testing followed Dillon's Standard Environmental Field Procedure for "Surface Water Sampling". The purpose of the field procedure is to provide guidance on general requirements and procedures for conducting environmental investigations and monitoring programs. Sampling was also conducted in accordance with the Resource Inventory Commission Guidelines for Designing and Implementing a Water Quality Monitoring Program in British Columbia (RIC, 1998).

Sampling was conducted on August 7, 2014. A standard field form was used for consistency with data collection between sites and included fields for weather, date, time of sampling, photo identification, GPS waypoints, *in situ* data, and field observations. Field *in situ* parameters were collected at each sample location using a YSI Professional Series Plus and a LaMotte 2020e turbidity meter (calibrated in the field). Field parameters measured included temperature, pH, dissolved oxygen, conductivity, and turbidity. Field parameters were measured concurrently with sample collection at each location. Samples for analytical testing were collected in laboratory supplied bottles and the samples collected for dissolved metals were filtered in the field using a 45-micron disposable filter. Samples were collected and analyzed for the following parameters:

- Metals (total and dissolved);
- Nutrients (nitrate, nitrite, ortho-phosphate, total phosphorus, and ammonia);
- Total organic carbon;
- Anions (bromide, chloride, fluoride, sulphate); and
- General water chemistry (alkalinity, hardness, conductivity, total suspended solids, total dissolved solids, and turbidity).

Maxxam Analytics (Maxxam) was the CALA accredited laboratory used to perform all sample analyses.

Quality Assurance / Quality Control (QA/QC)

A quality assurance/quality control (QA/QC) program was implemented to ensure that the performance of the water quality meters and field sample collection procedures did not introduce bias into the surface water quality results. The QA/QC procedures are intended to ensure that samples collected and tested on site adequately represent conditions at the time of measurement on the site.

The program included:

- On-site equipment calibration (particularly important dissolved oxygen which requires calibration adjusted for barometric pressure);
- Collection and analysis of one duplicate sample; and
- Comparison of *in situ* field measurements to laboratory analysis.

As noted above the quality control measures included the collection and analysis of one random duplicate sample, which were collected simultaneously with no identification of the relevant duplicate pair. Collection of the duplicate samples is to assess the precision of the entire program (field and laboratory components).

3.0 RESULTS

Surface water criteria are set by the Canadian Council of Ministers of the Environment (CCME) and by the British Columbia Water Quality (BCWQ) guidelines. CCME freshwater guidelines are outlined in the *Canadian Water Quality Guidelines for the Protection of Aquatic Life*; and BCWQ guidelines are outlined in the approved and working water quality guidelines. The results of the surface water quality analysis are compared to both the CCME and BCWQ guidelines for "freshwater aquatic life."

A brief high level summary of the results and comparative analysis to the guidelines is discussed below and provided in **Appendix B**. Certificate of analysis, provided by Maxxam Analytics is provided in **Appendix C**.

3.1 Surface Water Quality Testing

Of the five (5) sites identified for potential sampling, all but one (1) was sampled. At the time of sampling, Congo Creek (originally identified as the reference location in the workplan) was completely dry. Photographs and UTM coordinates were taken at Congo Creek, upstream of Red Mountain Road; however, it is expected that flows go sub-surface at the site. As such, a secondary reference site was chosen (Baby Ruth Creek – B1) and sampled.

Parameters measured in the field (*i.e., in situ* data) were within both the CCME and BCWQ guidelines at all sites (**Table 2**).

Table 2 *In situ* water quality results.

Site ID	Dissolved Oxygen (mg/L)	Temperature (°C)	Turbidity (NTU)	pH	Conductivity (µs/cm°)
F1	10.38	10.9	0.18	8.05	116.9
F2	11.45	7.6	1.07	7.80	99.8
F3	10.41	9.1	0.55	7.78	73.2
F4	10.31	8.4	0.21	7.71	68.2
B1	9.35	14.0	0.24	7.94	131.3

The results of the chemical analyses were for the most part within recommended guidelines for freshwater aquatic life, ***with the exception of total and dissolved arsenic***, which was over the recommended limit of 0.005 mg/L at all sites (range of 0.008 – 0.014 mg/L) except F4. The slightly elevated arsenic levels likely reflect the influence the local geology through which the watercourses pass.

3.2 Field Quality Assurance / Quality Control

The results of the QA/QC samples were analyzed and the reported values were consistent with results from the same site.

3.3 Laboratory Quality Assurance / Quality Control

Maxxam conducts internal quality control tests using matrix spikes, spiked blanks, method blank, QC standards and lab duplicates. All reported values were within the acceptable ranges. No analytical quality control concerns exist. The analytical data are considered to be valid and reliable for the purpose of the report and the stated conclusions.

4.0 DISCUSSION AND CONCLUSION

Of the parameters measured at each of the five sites sampled in August 2014 at the LH Property, the only exceedances observed were for total and dissolved arsenic. The remaining results of both the *in situ* and chemical analyses either met or exceeded both the CCME and BCWQ recommended guidelines for freshwater aquatic life. As noted above the slightly elevated arsenic levels likely reflect the influence the local geological conditions.

This report was prepared exclusively for the purposes, project, and site location outlined in the report. The report is based on information provided to, or obtained by Dillon as indicated in the report, and applies solely to site conditions and the regulatory and planning frameworks existing at the time of the Site investigation. Dillon prepared this report for the sole benefit of Magnum Goldcorp Inc. The material in this report reflects Dillon's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

APPENDIX A
SAMPLE LOCATIONS

F1 – Fingland Creek at the crossing with Red Mountain Road

Photo 1. Looking at F1 from Red Mountain Road.

Photo 2. Sampling F1 from immediately upstream (east) of Red Mountain Road.

F2 – Fingland Creek immediately upstream of the temporary crossing

Photo 3. Temporary bridge crossing of Fingland Creek at F2.

Photo 4. Sampling was conducted immediately upstream of the temporary bridge crossing.

F3 – Fingland Creek downstream of the proposed drilling activities

	
Photo 5. Temporary bridge crossing of Fingland Creek at F3.	**Photo 6.** Sampling was conducted immediately upstream of the temporary crossing.

F4 – Fingland Creek upstream of the proposed drilling activities

	
Photo 7. Temporary bridge crossing of Fingland Creek at F4.	**Photo 8.** Sampling was conducted immediately upstream of the temporary bridge crossing.

B1 – Babe Ruth Creek upstream of the confluence with Vevey Creek

Photo 9. Looking west at access into Babe Ruth Creek from the LNH access road.

Photo 10. Looking east at the sample location on Babe Ruth Creek.

Congo Creek – dry at the time of sampling

Photo 11. Looking upstream at the now dry, Congo Creek.

Photo 12. Looking downstream towards Red Mountain Road at the now dry, Congo Creek.

APPENDIX B
ANALYTICAL RESULTS

Parameter		Units	EQL	CCME Guidelines	BCWQ Fresh Water Aquatic Life	Location ID	B1	F1	F1-D	F2	F3	F4	Statistical Summary							
						Sample Date	8/7/2014	8/7/2014	8/7/2014	8/7/2014	8/7/2014	8/7/2014	Number of Results	Number of Detects	Minimum Concentration	Minimum Detect	Maximum Concentration	Maximum Detect	Average Concentration	Median Concentration	Standard Deviation
	Hardness	mg/L	0.5				58.5	55.7	49.5	39.4	32.8	30.7	6	6	30.7	30.7	58.5	58.5	44	44.45	12
	Hardness (Filtered)	mg/L	0.5				58.5	51.8	52.8	41.1	32.8	32.3	6	6	32.3	32.3	58.5	58.5	45	46.45	11
	phenolphthalein alkalinity	µg/L	500				<500	<500	<500	<500	<500	<500	6	0	<500	ND	<500	ND	250	250	0
Metals																					
	Aluminium	mg/L	0.003				0.05	0.0162	0.0144	0.0111	0.0102	0.013	6	6	0.0102	0.0102	0.05	0.05	0.019	0.0137	0.015
	Aluminium (Filtered)	mg/L	0.003				0.0123	0.0082	0.0089	0.0209	0.0087	0.0081	6	6	0.0081	0.0081	0.0209	0.0209	0.011	0.0088	0.005
	Antimony	mg/L	0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6	0	<0.0005	ND	<0.0005	ND	0.00025	0.00025	0
	Antimony (Filtered)	mg/L	0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6	0	<0.0005	ND	<0.0005	ND	0.00025	0.00025	0
	Arsenic	mg/L	0.0001	0.005	0.005		0.00806	0.00941	0.00882	0.0141	0.0132	0.0012	6	6	0.0012	0.0012	0.0141	0.0141	0.0091	0.009115	0.0046
	Arsenic (Filtered)	mg/L	0.0001	0.005	0.005		0.0082	0.00882	0.00893	0.0141	0.0137	0.0014	6	6	0.0014	0.0014	0.0141	0.0141	0.0092	0.008875	0.0046
	Barium	mg/L	0.001				0.0049	0.005	0.0048	0.0044	0.0065	0.0084	6	6	0.0044	0.0044	0.0084	0.0084	0.0057	0.00495	0.0015
	Barium (Filtered)	mg/L	0.001				0.0049	0.0048	0.0047	0.0045	0.0066	0.0084	6	6	0.0045	0.0045	0.0084	0.0084	0.0057	0.00485	0.0015
	Beryllium	mg/L	0.0001				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	6	0	<0.0001	ND	<0.0001	ND	0.00005	0.00005	0
	Beryllium (Filtered)	mg/L	0.0001				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	6	0	<0.0001	ND	<0.0001	ND	0.00005	0.00005	0
	Bismuth	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Bismuth (Filtered)	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Boron	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	0	<0.05	ND	<0.05	ND	0.025	0.025	0
	Boron (Filtered)	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	0	<0.05	ND	<0.05	ND	0.025	0.025	0
	Cadmium	mg/L	0.00001				0.000025	0.00001	<0.00001	<0.00001	0.000012	0.000025	6	4	<0.00001	0.00001	0.000025	0.000025	0.000014	0.000011	9.2E-06
	Cadmium (Filtered)	mg/L	0.00001				0.000012	<0.00001	<0.00001	<0.00001	<0.00001	0.000025	6	2	<0.00001	0.000012	0.000025	0.000025	0.0000095	0.000005	8.1E-06
	Calcium	mg/L	0.05				18.7	17.3	16	13.5	10.8	10.3	6	6	10.3	10.3	18.7	18.7	14	14.75	3.5
	Calcium (Filtered)	mg/L	0.05				18.4	17	17.3	14.2	11	10.8	6	6	10.8	10.8	18.4	18.4	15	15.6	3.3
	Chromium (III+VI)	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Chromium (III+VI) (Filtered)	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Cobalt	mg/L	0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6	0	<0.0005	ND	<0.0005	ND	0.00025	0.00025	0
	Cobalt (Filtered)	mg/L	0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6	0	<0.0005	ND	<0.0005	ND	0.00025	0.00025	0
	Copper	mg/L	0.0005				0.00053	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6	1	<0.0005	0.00053	0.00053	0.00053	0.0003	0.00025	0.00011
	Copper (Filtered)	mg/L	0.0002				0.00065	0.00047	0.00074	0.00047	0.00042	0.00029	6	6	0.00029	0.00029	0.00074	0.00074	0.00051	0.00047	0.00016
	Iron	mg/L	0.01				0.043	0.017	0.012	0.011	<0.01	0.012	6	5	<0.01	0.011	0.043	0.043	0.017	0.012	0.013
	Iron (Filtered)	mg/L	0.005				0.0071	<0.005	<0.005	0.013	0.0089	<0.005	6	3	<0.005	0.0071	0.013	0.013	0.0061	0.0048	0.0044
	Lead	mg/L	0.0002				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	6	0	<0.0002	ND	<0.0002	ND	0.0001	0.0001	0
	Lead (Filtered)	mg/L	0.0002				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	6	0	<0.0002	ND	<0.0002	ND	0.0001	0.0001	0
	Magnesium	mg/L	0.05				2.85	3	2.33	1.39	1.43	1.22	6	6	1.22	1.22	3	3	2	1.88	0.79
	Magnesium (Filtered)	mg/L	0.05				3.03	2.25	2.32	1.37	1.3	1.31	6	6	1.3	1.3	3.03	3.03	1.9	1.81	0.72
	Manganese	mg/L	0.001				0.0039	0.0013	<0.001	<0.001	<0.001	<0.001	6	2	<0.001	0.0013	0.0039	0.0039	0.0012	0.0005	0.0014
	Manganese (Filtered)	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Mercury	mg/L	0.00001				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	6	0	<0.00001	ND	<0.00001	ND	0.000005	0.000005	0
	Mercury (Filtered)	mg/L	0.00001				<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	6	0	<0.00001	ND	<0.00001	ND	0.000005	0.000005	0
	Molybdenum	mg/L	0.001				0.0029	0.0021	0.002	0.0014	<0.001	<0.001	6	4	<0.001	0.0014	0.0029	0.0029	0.0016	0.0017	0.00095
	Molybdenum (Filtered)	mg/L	0.001				0.003	0.0021	0.002	0.0014	<0.001	<0.001	6	4	<0.001	0.0014	0.003	0.003	0.0016	0.0017	0.00098
	Nickel	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Nickel (Filtered)	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	0	<0.001	ND	<0.001	ND	0.0005	0.0005	0
	Phosphorus	mg/L	0.005				0.0092	0.0077	0.0062	<0.005	0.0067	0.007	6	5	<0.005	0.0062	0.0092	0.0092	0.0066	0.00685	0.0022
	Potassium	mg/L	0.05				1.25	0.915	0.825	0.573	0.412	0.351	6	6	0.351	0.351	1.25	1.25	0.72	0.699	0.34
	Potassium (Filtered)	mg/L	0.05				1.34	0.9	0.921	0.561	0.491	0.428	6	6	0.428	0.428	1.34	1.34	0.77	0.7305	0.35
	Selenium	mg/L	0.0001				0.00051	0.00037	0.00028	0.00016	<0.0001	<0.0001	6	4	<0.0001	0.00016	0.00051	0.00051	0.00024	0.00022	0.00018

	Selenium (Filtered)	mg/L	0.0001			0.0003	0.00033	0.00031	0.00016	0.00012	<0.0001	6	5	<0.0001	0.00012	0.00033	0.00033	0.00021	0.00023	0.00012
	Silicon	µg/L	100			7140	5270	4870	3720	2480	2090	6	6	2090	2090	7140	7140	4262	4295	1890
	Silicon (Filtered)	µg/L	100			7010	5010	5180	3740	2460	2100	6	6	2100	2100	7010	7010	4250	4375	1852
	Silver	mg/L	0.00002			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	6	0	<0.00002	ND	<0.00002	ND	0.00001	0.00001	0
	Silver (Filtered)	mg/L	0.00002			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	6	0	<0.00002	ND	<0.00002	ND	0.00001	0.00001	0
	Strontium	mg/L	0.001			0.155	0.164	0.148	0.117	0.0807	0.0842	6	6	0.0807	0.0807	0.164	0.164	0.12	0.1325	0.036
	Strontium (Filtered)	mg/L	0.001			0.165	0.151	0.152	0.113	0.0809	0.0836	6	6	0.0809	0.0809	0.165	0.165	0.12	0.132	0.037
	Thallium	mg/L	0.00005			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	6	0	<0.00005	ND	<0.00005	ND	0.000025	0.000025	0
	Thallium (Filtered)	mg/L	0.00005			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	6	0	<0.00005	ND	<0.00005	ND	0.000025	0.000025	0
	Tin	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Tin (Filtered)	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Titanium	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Titanium (Filtered)	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Uranium	µg/L	0.1			0.76	1.22	1	0.18	0.38	0.54	6	6	0.18	0.18	1.22	1.22	0.68	0.65	0.39
	Uranium (Filtered)	µg/L	0.1			0.68	0.88	0.92	0.17	0.31	0.48	6	6	0.17	0.17	0.92	0.92	0.57	0.58	0.31
	Vanadium	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Vanadium (Filtered)	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Zinc	mg/L	0.005			0.014	<0.005	<0.005	<0.005	<0.005	<0.005	6	1	<0.005	0.014	0.014	0.014	0.0044	0.0025	0.0047
	Zinc (Filtered)	mg/L	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	0	<0.005	ND	<0.005	ND	0.0025	0.0025	0
	Zirconium	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	0	<0.5	ND	<0.5	ND	0.25	0.25	0
	Zirconium (Filtered)	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	0	<0.5	ND	<0.5	ND	0.25	0.25	0
Inorganics																				
	Alkalinity (Carbonate as CaCO3)	mg/L	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	0	<0.5	ND	<0.5	ND	0.25	0.25	0
	Alkalinity (total) as CaCO3	mg/L	0.5			50.3	43.2	45	33.1	30.2	30.8	6	6	30.2	30.2	50.3	50.3	39	38.15	8.5
	Ammonia	mg/L	0.005			0.0064	0.016	0.0095	0.023	0.034	0.026	6	6	0.0064	0.0064	0.034	0.034	0.019	0.0195	0.01
	Bicarbonate	mg/L	0.5			61.4	52.7	54.8	40.4	36.8	37.6	6	6	36.8	36.8	61.4	61.4	47	46.55	10
	Bromide	µg/L	100			<100	<100	<100	<100	<100	<100	6	0	<100	ND	<100	ND	50	50	0
	Carbonate	mg/L	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	0	<0.5	ND	<0.5	ND	0.25	0.25	0
	Chloride (Filtered)	mg/L	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	0	<0.5	ND	<0.5	ND	0.25	0.25	0
	Fluoride	mg/L	0.1			0.35	0.33	0.3	0.13	<0.1	<0.1	6	4	<0.1	0.13	0.35	0.35	0.2	0.215	0.14
	Hydroxide	µg/L	500			<500	<500	<500	<500	<500	<500	6	0	<500	ND	<500	ND	250	250	0
	Nitrate (as NO3-)	mg/L	0.02			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6	0	<0.1	ND	<0.1	ND	0.05	0.05	0
	Nitrite (as N)	mg/L	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6	0	<0.1	ND	<0.1	ND	0.05	0.05	0
	Nitrogen (Total Oxidised)	mg/L	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6	0	<0.1	ND	<0.1	ND	0.05	0.05	0
	Sodium	mg/L	0.05			2.2	2.72	2.01	1.27	1.1	0.768	6	6	0.768	0.768	2.72	2.72	1.7	1.64	0.75
	Sodium (Filtered)	mg/L	0.05			2.27	1.94	1.9	1.23	0.936	0.758	6	6	0.758	0.758	2.27	2.27	1.5	1.565	0.61
	Sulphate (Filtered)	mg/L	0.5			9.15	8.91	9.28	9.92	4.84	2.05	6	6	2.05	2.05	9.92	9.92	7.4	9.03	3.2
	Sulphur as S	mg/L	3			<3	6.9	3.1	4.1	<3	<3	6	3	<3	3.1	6.9	6.9	3.1	2.3	2.2
	Sulphur as S (Filtered)	mg/L	3			3.5	<3	3.4	<3	<3	<3	6	2	<3	3.4	3.5	3.5	2.2	1.5	1
	TDS	mg/L	10			92	56	52	46	40	32	6	6	32	32	92	92	53	49	21
	TOC	mg/L	0.5			1.6	<0.5	<0.5	<0.5	<0.5	0.55	6	2	<0.5	0.55	1.6	1.6	0.53	0.25	0.54
	ORTHOPHOSPHATE (PO4-P)	mg/L	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6	0	<0.1	ND	<0.1	ND	0.05	0.05	0
	TSS	mg/L	4			<4	<4	<4	<4	<4	<4	6	0	<4	ND	<4	ND	2	2	0

APPENDIX C
CERTIFICATE OF ANALYSIS

Maxxam

Success Through Science®

Your P.O. #: 149882
Your Project #: LH MINE
Your C.O.C. #: 44507701, 445077-01-01

Attention:Richard Pope

DILLON CONSULTING LTD.
510 - 3820 CESSNA DRIVE
Richmond, BC
CANADA V7B 0A2

Report Date: 2014/08/21
Report #: R1625768
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B468478
Received: 2014/08/08, 14:05

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	6	2014/08/09	2014/08/09	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	5	N/A	2014/08/11	BBY6SOP-00011	SM 22 4500-Cl- G m
Chloride by Automated Colourimetry	1	N/A	2014/08/12	BBY6SOP-00011	SM 22 4500-Cl- G m
Conductance - water	6	N/A	2014/08/09	BBY6SOP-00026	SM 22 2510 B m
Fluoride (higher level)	6	N/A	2014/08/11	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3)	6	N/A	2014/08/19	BBY7SOP-00002	EPA 6020a R1 m
Hardness (calculated as CaCO3)	1	N/A	2014/08/15	BBY7SOP-00002	EPA 6020a R1 m
Hardness (calculated as CaCO3)	5	N/A	2014/08/18	BBY7SOP-00002	EPA 6020a R1 m
Mercury (Dissolved) by CVAF	6	N/A	2014/08/14	BBY7SOP-00015	BCMOE BCLM Jul2013 m
Mercury (Total) by CVAF	6	2014/08/13	2014/08/13	BBY7SOP-00015	BCMOE BCLM Jul2013 m
Bromide as Bromine (Br) ICPMS-highlevel	6	N/A	2014/08/13	BBY7SOP-00002	EPA 6020A R1 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2014/08/15	BBY7SOP-00002	EPA 6020A R1 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2014/08/18	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	1	N/A	2014/08/14	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	5	N/A	2014/08/18	BBY7SOP-00002	EPA 6020A R1 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	2014/08/08	2014/08/19	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	1	2014/08/18	2014/08/18	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	1	2014/08/18	2014/08/19	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	4	2014/08/19	2014/08/19	BBY7SOP-00002	EPA 6020A R1 m
Ammonia-N (Preserved)	6	N/A	2014/08/11	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N) (highlevel)	6	N/A	2014/08/09	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA (highlevel)	6	N/A	2014/08/09	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	6	N/A	2014/08/09	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	6	N/A	2014/08/12	BBY6WI-00001	EPA 200.2
Orthophosphate by Konelab (highlevel)	6	N/A	2014/08/09	BBY6SOP-00013	SM 22 4500-P E m
Sulphate by Automated Colourimetry	6	N/A	2014/08/11	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	6	2014/08/11	2014/08/12	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1)	6	N/A	2014/08/12	BBY6SOP-00003	SM 22 5310 C m
Phosphorus-P (Tot, diss.) - unfiltered	6	2014/08/11	2014/08/11	BBY6SOP-00013	SM 22 4500-P E m
Total Suspended Solids	6	N/A	2014/08/12	BBY6SOP-00034	SM 22 2540 D

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: 149882
Your Project #: LH MINE
Your C.O.C. #: 44507701, 445077-01-01

Attention:Richard Pope

DILLON CONSULTING LTD.
510 - 3820 CESSNA DRIVE
Richmond, BC
CANADA V7B 0A2

Report Date: 2014/08/21
Report #: R1625768
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B468478
Received: 2014/08/08, 14:05

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Crystal Ireland, B.Sc., Account Specialist
Email: CIreland@maxxam.ca
Phone# (604)638-5016

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		KH5179		KH5180	KH5181	KH5182		
Sampling Date		2014/08/07 17:35		2014/08/07 13:12	2014/08/07 14:24	2014/08/07 14:54		
COC Number		445077-01-01		445077-01-01	445077-01-01	445077-01-01		
	Units	F1	QC Batch	F2	F3	F4	RDL	QC Batch
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	7597185	LAB	LAB	LAB	N/A	7597185
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	43.2	7594600	33.1	30.2	30.8	0.50	7594600
Total Organic Carbon (C)	mg/L	<0.50	7597878	<0.50	<0.50	0.55	0.50	7597878
Alkalinity (PP as CaCO3)	mg/L	<0.50	7594600	<0.50	<0.50	<0.50	0.50	7594600
Bicarbonate (HCO3)	mg/L	52.7	7594600	40.4	36.8	37.6	0.50	7594600
Carbonate (CO3)	mg/L	<0.50	7594600	<0.50	<0.50	<0.50	0.50	7594600
Hydroxide (OH)	mg/L	<0.50	7594600	<0.50	<0.50	<0.50	0.50	7594600
Nutrients								
Total Ammonia (N)	mg/L	0.016	7596084	0.023	0.034	0.026	0.0050	7596084
Dissolved Phosphorus (P)	mg/L	0.0077 (1)	7595510	<0.0050 (1)	0.0067 (1)	0.0070 (1)	0.0050	7595510
Physical Properties								
Conductivity	uS/cm	110	7594606	88.4	69.3	66.3	1.0	7594606
Physical Properties								
Total Suspended Solids	mg/L	<4.0	7595438	<4.0	<4.0	<4.0	4.0	7595439
Total Dissolved Solids	mg/L	56	7595454	46	40	32	10	7595454

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		KH5183		KH5184		
Sampling Date		2014/08/07 16:55		2014/08/07 17:45		
COC Number		445077-01-01		445077-01-01		
	Units	B1	QC Batch	F1-D	RDL	QC Batch
Calculated Parameters						
Filter and HNO3 Preservation	N/A	LAB	7597185	LAB	N/A	7597185
Misc. Inorganics						
Alkalinity (Total as CaCO3)	mg/L	50.3	7594600	45.0	0.50	7594600
Total Organic Carbon (C)	mg/L	1.60	7597878	<0.50	0.50	7597878
Alkalinity (PP as CaCO3)	mg/L	<0.50	7594600	<0.50	0.50	7594600
Bicarbonate (HCO3)	mg/L	61.4	7594600	54.8	0.50	7594600
Carbonate (CO3)	mg/L	<0.50	7594600	<0.50	0.50	7594600
Hydroxide (OH)	mg/L	<0.50	7594600	<0.50	0.50	7594600
Nutrients						
Total Ammonia (N)	mg/L	0.0064	7596084	0.0095	0.0050	7596084
Dissolved Phosphorus (P)	mg/L	0.0092 (1)	7595510	0.0062 (1)	0.0050	7595510
Physical Properties						
Conductivity	uS/cm	125	7594606	113	1.0	7594606
Physical Properties						
Total Suspended Solids	mg/L	<4.0	7595439	<4.0	4.0	7595439
Total Dissolved Solids	mg/L	92	7595465	52	10	7595454

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

HIGH LEVEL ANIONS PACKAGE (WATER)

Maxxam ID		KH5179	KH5180	KH5181	KH5182	KH5183		
Sampling Date		2014/08/07 17:35	2014/08/07 13:12	2014/08/07 14:24	2014/08/07 14:54	2014/08/07 16:55		
COC Number		445077-01-01	445077-01-01	445077-01-01	445077-01-01	445077-01-01		
	Units	F1	F2	F3	F4	B1	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7594768
Calculated Parameters								
Nitrate (N)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7593305
Misc. Inorganics								
Fluoride (F)	mg/L	0.33	0.13	<0.10	<0.10	0.35	0.10	7596313
Anions								
Dissolved Sulphate (SO4)	mg/L	8.91	9.92	4.84	2.05	9.15	0.50	7596326
Dissolved Chloride (Cl)	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7596320
Nutrients								
Orthophosphate (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7594751
Nitrate plus Nitrite (N)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7594764
ANIONS								
Bromide (Br)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7597366
RDL = Reportable Detection Limit								

Maxxam ID		KH5184		
Sampling Date		2014/08/07 17:45		
COC Number		445077-01-01		
	Units	F1-D	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	<0.10	0.10	7594768
Calculated Parameters				
Nitrate (N)	mg/L	<0.10	0.10	7593305
Misc. Inorganics				
Fluoride (F)	mg/L	0.30	0.10	7596313
Anions				
Dissolved Sulphate (SO4)	mg/L	9.28	0.50	7596326
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	7597748
Nutrients				
Orthophosphate (P)	mg/L	<0.10	0.10	7594751
Nitrate plus Nitrite (N)	mg/L	<0.10	0.10	7594764
ANIONS				
Bromide (Br)	mg/L	<0.10	0.10	7597366
RDL = Reportable Detection Limit				

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		KH5179		KH5180		KH5181	KH5182	KH5183		
Sampling Date		2014/08/07 17:35		2014/08/07 13:12		2014/08/07 14:24	2014/08/07 14:54	2014/08/07 16:55		
COC Number		445077-01-01		445077-01-01		445077-01-01	445077-01-01	445077-01-01		
	Units	F1	QC Batch	F2	QC Batch	F3	F4	B1	RDL	QC Batch
Misc. Inorganics										
Dissolved Hardness (CaCO3)	mg/L	51.8	7593109	41.1	7593109	32.8	32.3	58.5	0.50	7593109
Elements										
Dissolved Mercury (Hg)	ug/L	<0.010	7599841	<0.010	7599841	<0.010	<0.010	<0.010	0.010	7599841
Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	8.2	7600676	20.9 (1)	7600707	8.7	8.1	12.3	3.0	7600676
Dissolved Antimony (Sb)	ug/L	<0.50	7600676	<0.50	7600707	<0.50	<0.50	<0.50	0.50	7600676
Dissolved Arsenic (As)	ug/L	8.82	7600676	14.1	7600707	13.7	1.40	8.20	0.10	7600676
Dissolved Barium (Ba)	ug/L	4.8	7600676	4.5	7600707	6.6	8.4	4.9	1.0	7600676
Dissolved Beryllium (Be)	ug/L	<0.10	7600676	<0.10	7600707	<0.10	<0.10	<0.10	0.10	7600676
Dissolved Bismuth (Bi)	ug/L	<1.0	7600676	<1.0	7600707	<1.0	<1.0	<1.0	1.0	7600676
Dissolved Boron (B)	ug/L	<50	7600676	<50	7600707	<50	<50	<50	50	7600676
Dissolved Cadmium (Cd)	ug/L	<0.010	7600676	<0.010	7600707	<0.010	0.025	0.012	0.010	7600676
Dissolved Chromium (Cr)	ug/L	<1.0	7600676	<1.0	7600707	<1.0	<1.0	<1.0	1.0	7600676
Dissolved Cobalt (Co)	ug/L	<0.50	7600676	<0.50	7600707	<0.50	<0.50	<0.50	0.50	7600676
Dissolved Copper (Cu)	ug/L	0.47	7600676	0.47	7600707	0.42	0.29	0.65	0.20	7600676
Dissolved Iron (Fe)	ug/L	<5.0	7600676	13.0	7600707	8.9	<5.0	7.1	5.0	7600676
Dissolved Lead (Pb)	ug/L	<0.20	7600676	<0.20	7600707	<0.20	<0.20	<0.20	0.20	7600676
Dissolved Manganese (Mn)	ug/L	<1.0	7600676	<1.0	7600707	<1.0	<1.0	<1.0	1.0	7600676
Dissolved Molybdenum (Mo)	ug/L	2.1	7600676	1.4	7600707	<1.0	<1.0	3.0	1.0	7600676
Dissolved Nickel (Ni)	ug/L	<1.0	7600676	<1.0	7600707	<1.0	<1.0	<1.0	1.0	7600676
Dissolved Selenium (Se)	ug/L	0.33	7600676	0.16	7600707	0.12	<0.10	0.30	0.10	7600676
Dissolved Silicon (Si)	ug/L	5010	7600676	3740	7600707	2460	2100	7010	100	7600676
Dissolved Silver (Ag)	ug/L	<0.020	7600676	<0.020	7600707	<0.020	<0.020	<0.020	0.020	7600676
Dissolved Strontium (Sr)	ug/L	151	7600676	113	7600707	80.9	83.6	165	1.0	7600676
Dissolved Thallium (Tl)	ug/L	<0.050	7600676	<0.050	7600707	<0.050	<0.050	<0.050	0.050	7600676
Dissolved Tin (Sn)	ug/L	<5.0	7600676	<5.0	7600707	<5.0	<5.0	<5.0	5.0	7600676
Dissolved Titanium (Ti)	ug/L	<5.0	7600676	<5.0	7600707	<5.0	<5.0	<5.0	5.0	7600676
Dissolved Uranium (U)	ug/L	0.88	7600676	0.17	7600707	0.31	0.48	0.68	0.10	7600676
Dissolved Vanadium (V)	ug/L	<5.0	7600676	<5.0	7600707	<5.0	<5.0	<5.0	5.0	7600676
Dissolved Zinc (Zn)	ug/L	<5.0	7600676	<5.0	7600707	<5.0	<5.0	<5.0	5.0	7600676
Dissolved Zirconium (Zr)	ug/L	<0.50	7600676	<0.50	7600707	<0.50	<0.50	<0.50	0.50	7600676
Dissolved Calcium (Ca)	mg/L	17.0	7593110	14.2	7593110	11.0	10.8	18.4	0.050	7593110
Dissolved Magnesium (Mg)	mg/L	2.25	7593110	1.37	7593110	1.30	1.31	3.03	0.050	7593110
Dissolved Potassium (K)	mg/L	0.900	7593110	0.561	7593110	0.491	0.428	1.34	0.050	7593110

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Reanalysis yields similar results.

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		KH5179		KH5180		KH5181	KH5182	KH5183		
Sampling Date		2014/08/07 17:35		2014/08/07 13:12		2014/08/07 14:24	2014/08/07 14:54	2014/08/07 16:55		
COC Number		445077-01-01		445077-01-01		445077-01-01	445077-01-01	445077-01-01		
	Units	F1	QC Batch	F2	QC Batch	F3	F4	B1	RDL	QC Batch
Dissolved Sodium (Na)	mg/L	1.94	7593110	1.23	7593110	0.936	0.758	2.27	0.050	7593110
Dissolved Sulphur (S)	mg/L	<3.0	7593110	<3.0	7593110	<3.0	<3.0	3.5	3.0	7593110
RDL = Reportable Detection Limit										

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		KH5184		
Sampling Date		2014/08/07 17:45		
COC Number		445077-01-01		
	Units	F1-D	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	52.8	0.50	7593109
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	7599841
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	8.9	3.0	7600676
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7600676
Dissolved Arsenic (As)	ug/L	8.93	0.10	7600676
Dissolved Barium (Ba)	ug/L	4.7	1.0	7600676
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	7600676
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7600676
Dissolved Boron (B)	ug/L	<50	50	7600676
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	7600676
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	7600676
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7600676
Dissolved Copper (Cu)	ug/L	0.74	0.20	7600676
Dissolved Iron (Fe)	ug/L	<5.0	5.0	7600676
Dissolved Lead (Pb)	ug/L	<0.20	0.20	7600676
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	7600676
Dissolved Molybdenum (Mo)	ug/L	2.0	1.0	7600676
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7600676
Dissolved Selenium (Se)	ug/L	0.31	0.10	7600676
Dissolved Silicon (Si)	ug/L	5180	100	7600676
Dissolved Silver (Ag)	ug/L	<0.020	0.020	7600676
Dissolved Strontium (Sr)	ug/L	152	1.0	7600676
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7600676
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7600676
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7600676
Dissolved Uranium (U)	ug/L	0.92	0.10	7600676
Dissolved Vanadium (V)	ug/L	<5.0	5.0	7600676
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7600676
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	7600676
Dissolved Calcium (Ca)	mg/L	17.3	0.050	7593110
Dissolved Magnesium (Mg)	mg/L	2.32	0.050	7593110
Dissolved Potassium (K)	mg/L	0.921	0.050	7593110
Dissolved Sodium (Na)	mg/L	1.90	0.050	7593110
RDL = Reportable Detection Limit				

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME DISSOLVED METALS IN WATER (WATER)

Maxxam ID		KH5184		
Sampling Date		2014/08/07 17:45		
COC Number		445077-01-01		
	Units	**F1-D**	**RDL**	**QC Batch**
Dissolved Sulphur (S)	mg/L	3.4	3.0	7593110
RDL = Reportable Detection Limit				

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME TOTAL METALS IN WATER (WATER)

Maxxam ID		KH5179		KH5180		KH5181	KH5182		
Sampling Date		2014/08/07 17:35		2014/08/07 13:12		2014/08/07 14:24	2014/08/07 14:54		
COC Number		445077-01-01		445077-01-01		445077-01-01	445077-01-01		
	Units	F1	QC Batch	F2	QC Batch	F3	F4	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	55.7	7593254	39.4	7593254	32.8	30.7	0.50	7593254
Elements									
Total Mercury (Hg)	ug/L	<0.010	7598505	<0.010	7598505	<0.010	<0.010	0.010	7598505
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	16.2	7604917	11.1	7604948	10.2	13.0	3.0	7606325
Total Antimony (Sb)	ug/L	<0.50	7604917	<0.50	7604948	<0.50	<0.50	0.50	7606325
Total Arsenic (As)	ug/L	9.41	7604917	14.1	7604948	13.2	1.20	0.10	7606325
Total Barium (Ba)	ug/L	5.0	7604917	4.4	7604948	6.5	8.4	1.0	7606325
Total Beryllium (Be)	ug/L	<0.10	7604917	<0.10	7604948	<0.10	<0.10	0.10	7606325
Total Bismuth (Bi)	ug/L	<1.0	7604917	<1.0	7604948	<1.0	<1.0	1.0	7606325
Total Boron (B)	ug/L	<50	7604917	<50	7604948	<50	<50	50	7606325
Total Cadmium (Cd)	ug/L	0.010	7604917	<0.010	7604948	0.012	0.025	0.010	7606325
Total Chromium (Cr)	ug/L	<1.0	7604917	<1.0	7604948	<1.0	<1.0	1.0	7606325
Total Cobalt (Co)	ug/L	<0.50	7604917	<0.50	7604948	<0.50	<0.50	0.50	7606325
Total Copper (Cu)	ug/L	<0.50	7604917	<0.50	7604948	<0.50	<0.50	0.50	7606325
Total Iron (Fe)	ug/L	17	7604917	11	7604948	<10	12	10	7606325
Total Lead (Pb)	ug/L	<0.20	7604917	<0.20	7604948	<0.20	<0.20	0.20	7606325
Total Manganese (Mn)	ug/L	1.3	7604917	<1.0	7604948	<1.0	<1.0	1.0	7606325
Total Molybdenum (Mo)	ug/L	2.1	7604917	1.4	7604948	<1.0	<1.0	1.0	7606325
Total Nickel (Ni)	ug/L	<1.0	7604917	<1.0	7604948	<1.0	<1.0	1.0	7606325
Total Selenium (Se)	ug/L	0.37	7604917	0.16	7604948	<0.10	<0.10	0.10	7606325
Total Silicon (Si)	ug/L	5270	7604917	3720	7604948	2480	2090	100	7606325
Total Silver (Ag)	ug/L	<0.020	7604917	<0.020	7604948	<0.020	<0.020	0.020	7606325
Total Strontium (Sr)	ug/L	164	7604917	117	7604948	80.7	84.2	1.0	7606325
Total Thallium (Tl)	ug/L	<0.050	7604917	<0.050	7604948	<0.050	<0.050	0.050	7606325
Total Tin (Sn)	ug/L	<5.0	7604917	<5.0	7604948	<5.0	<5.0	5.0	7606325
Total Titanium (Ti)	ug/L	<5.0	7604917	<5.0	7604948	<5.0	<5.0	5.0	7606325
Total Uranium (U)	ug/L	1.22	7604917	0.18	7604948	0.38	0.54	0.10	7606325
Total Vanadium (V)	ug/L	<5.0	7604917	<5.0	7604948	<5.0	<5.0	5.0	7606325
Total Zinc (Zn)	ug/L	<5.0	7604917	<5.0	7604948	<5.0	<5.0	5.0	7606325
Total Zirconium (Zr)	ug/L	<0.50	7604917	<0.50	7604948	<0.50	<0.50	0.50	7606325
Total Calcium (Ca)	mg/L	17.3	7593255	13.5	7593255	10.8	10.3	0.050	7593255
Total Magnesium (Mg)	mg/L	3.00	7593255	1.39	7593255	1.43	1.22	0.050	7593255
Total Potassium (K)	mg/L	0.915	7593255	0.573	7593255	0.412	0.351	0.050	7593255
Total Sodium (Na)	mg/L	2.72	7593255	1.27	7593255	1.10	0.768	0.050	7593255

RDL = Reportable Detection Limit

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME TOTAL METALS IN WATER (WATER)

Maxxam ID		KH5179		KH5180		KH5181	KH5182		
Sampling Date		2014/08/07 17:35		2014/08/07 13:12		2014/08/07 14:24	2014/08/07 14:54		
COC Number		445077-01-01		445077-01-01		445077-01-01	445077-01-01		
	Units	F1	QC Batch	F2	QC Batch	F3	F4	RDL	QC Batch
Total Sulphur (S)	mg/L	6.9	7593255	4.1	7593255	<3.0	<3.0	3.0	7593255
RDL = Reportable Detection Limit									

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Maxxam Job #: B468478
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DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME TOTAL METALS IN WATER (WATER)

Maxxam ID		KH5183			KH5184		
Sampling Date		2014/08/07 16:55			2014/08/07 17:45		
COC Number		445077-01-01			445077-01-01		
	Units	B1	RDL	QC Batch	F1-D	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	58.5	0.50	7593254	49.5	0.50	7593254
Elements							
Total Mercury (Hg)	ug/L	<0.010	0.010	7598505	<0.010	0.010	7598505
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	50 (1)	10	7606158	14.4	3.0	7606325
Total Antimony (Sb)	ug/L	<0.50	0.50	7606158	<0.50	0.50	7606325
Total Arsenic (As)	ug/L	8.06	0.10	7606158	8.82	0.10	7606325
Total Barium (Ba)	ug/L	4.9	1.0	7606158	4.8	1.0	7606325
Total Beryllium (Be)	ug/L	<0.10	0.10	7606158	<0.10	0.10	7606325
Total Bismuth (Bi)	ug/L	<1.0	1.0	7606158	<1.0	1.0	7606325
Total Boron (B)	ug/L	<50	50	7606158	<50	50	7606325
Total Cadmium (Cd)	ug/L	0.025	0.010	7606158	<0.010	0.010	7606325
Total Chromium (Cr)	ug/L	<1.0	1.0	7606158	<1.0	1.0	7606325
Total Cobalt (Co)	ug/L	<0.50	0.50	7606158	<0.50	0.50	7606325
Total Copper (Cu)	ug/L	0.53	0.50	7606158	<0.50	0.50	7606325
Total Iron (Fe)	ug/L	43	10	7606158	12	10	7606325
Total Lead (Pb)	ug/L	<0.20	0.20	7606158	<0.20	0.20	7606325
Total Manganese (Mn)	ug/L	3.9	1.0	7606158	<1.0	1.0	7606325
Total Molybdenum (Mo)	ug/L	2.9	1.0	7606158	2.0	1.0	7606325
Total Nickel (Ni)	ug/L	<1.0	1.0	7606158	<1.0	1.0	7606325
Total Selenium (Se)	ug/L	0.51	0.10	7606158	0.28	0.10	7606325
Total Silicon (Si)	ug/L	7140	100	7606158	4870	100	7606325
Total Silver (Ag)	ug/L	<0.020	0.020	7606158	<0.020	0.020	7606325
Total Strontium (Sr)	ug/L	155	1.0	7606158	148	1.0	7606325
Total Thallium (Tl)	ug/L	<0.050	0.050	7606158	<0.050	0.050	7606325
Total Tin (Sn)	ug/L	<5.0	5.0	7606158	<5.0	5.0	7606325
Total Titanium (Ti)	ug/L	<5.0	5.0	7606158	<5.0	5.0	7606325
Total Uranium (U)	ug/L	0.76	0.10	7606158	1.00	0.10	7606325
Total Vanadium (V)	ug/L	<5.0	5.0	7606158	<5.0	5.0	7606325
Total Zinc (Zn)	ug/L	14.0	5.0	7606158	<5.0	5.0	7606325
Total Zirconium (Zr)	ug/L	<0.50	0.50	7606158	<0.50	0.50	7606325
Total Calcium (Ca)	mg/L	18.7	0.050	7593255	16.0	0.050	7593255
Total Magnesium (Mg)	mg/L	2.85	0.050	7593255	2.33	0.050	7593255
Total Potassium (K)	mg/L	1.25	0.050	7593255	0.825	0.050	7593255

RDL = Reportable Detection Limit
(1) Blank outside acceptance criteria, detection limit adjusted accordingly.

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

CCME TOTAL METALS IN WATER (WATER)

Maxxam ID		KH5183			KH5184		
Sampling Date		2014/08/07 16:55			2014/08/07 17:45		
COC Number		445077-01-01			445077-01-01		
	Units	B1	RDL	QC Batch	F1-D	RDL	QC Batch
Total Sodium (Na)	mg/L	2.20	0.050	7593255	2.01	0.050	7593255
Total Sulphur (S)	mg/L	<3.0	3.0	7593255	3.1	3.0	7593255
RDL = Reportable Detection Limit							

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Maxxam Job #: B468478
Report Date: 2014/08/21

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7594600	Alkalinity (PP as CaCO3)	2014/08/09					<0.50	mg/L		
7594600	Alkalinity (Total as CaCO3)	2014/08/09	109	80 - 120	96	80 - 120	<0.50	mg/L		
7594600	Bicarbonate (HCO3)	2014/08/09					<0.50	mg/L		
7594600	Carbonate (CO3)	2014/08/09					<0.50	mg/L		
7594600	Hydroxide (OH)	2014/08/09					<0.50	mg/L		
7594606	Conductivity	2014/08/09			99	80 - 120	1.1 ,RDL=1.0	uS/cm		
7594751	Orthophosphate (P)	2014/08/09			97	80 - 120	<0.10	mg/L		
7594764	Nitrate plus Nitrite (N)	2014/08/09	104	80 - 120	106	80 - 120	<0.10	mg/L	NC	25
7594768	Nitrite (N)	2014/08/09	97	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
7595438	Total Suspended Solids	2014/08/12	87	80 - 120	103	80 - 120	<4.0	mg/L		
7595439	Total Suspended Solids	2014/08/12	106	80 - 120	104	80 - 120	<4.0	mg/L	NC	20
7595454	Total Dissolved Solids	2014/08/12	101	80 - 120	86	80 - 120	<10	mg/L	NC	20
7595465	Total Dissolved Solids	2014/08/12	104	80 - 120	82	80 - 120	<10	mg/L	19.0	20
7595510	Dissolved Phosphorus (P)	2014/08/11	104	80 - 120	110	80 - 120	<0.0050	mg/L		
7596084	Total Ammonia (N)	2014/08/11	97	80 - 120	105	80 - 120	0.0066 ,RDL=0.0050	mg/L		
7596313	Fluoride (F)	2014/08/11	100	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
7596320	Dissolved Chloride (Cl)	2014/08/11	96	80 - 120	103	80 - 120	<0.50	mg/L	NC	20
7596326	Dissolved Sulphate (SO4)	2014/08/11	NC	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
7597366	Bromide (Br)	2014/08/13			92	80 - 120	<0.10	mg/L	NC	20
7597748	Dissolved Chloride (Cl)	2014/08/12	NC	80 - 120	103	80 - 120	<0.50	mg/L		
7597878	Total Organic Carbon (C)	2014/08/12	NC	80 - 120	108	80 - 120	<0.50	mg/L		
7598505	Total Mercury (Hg)	2014/08/13	102	80 - 120	101	80 - 120	<0.010	ug/L		
7599841	Dissolved Mercury (Hg)	2014/08/14	89	80 - 120	96	80 - 120	<0.010	ug/L		
7600676	Dissolved Aluminum (Al)	2014/08/18	117	80 - 120	101	80 - 120	<3.0	ug/L		
7600676	Dissolved Antimony (Sb)	2014/08/18	111	80 - 120	99	80 - 120	<0.50	ug/L		
7600676	Dissolved Arsenic (As)	2014/08/18	107	80 - 120	99	80 - 120	<0.10	ug/L		
7600676	Dissolved Barium (Ba)	2014/08/18	NC	80 - 120	96	80 - 120	<1.0	ug/L		
7600676	Dissolved Beryllium (Be)	2014/08/18	102	80 - 120	91	80 - 120	<0.10	ug/L		
7600676	Dissolved Bismuth (Bi)	2014/08/18	104	80 - 120	101	80 - 120	<1.0	ug/L		
7600676	Dissolved Boron (B)	2014/08/18					<50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7600676	Dissolved Cadmium (Cd)	2014/08/18	108	80 - 120	98	80 - 120	<0.010	ug/L		
7600676	Dissolved Chromium (Cr)	2014/08/18	107	80 - 120	97	80 - 120	<1.0	ug/L		
7600676	Dissolved Cobalt (Co)	2014/08/18	105	80 - 120	97	80 - 120	<0.50	ug/L		
7600676	Dissolved Copper (Cu)	2014/08/18	NC	80 - 120	102	80 - 120	<0.20	ug/L		
7600676	Dissolved Iron (Fe)	2014/08/18	102	80 - 120	101	80 - 120	<5.0	ug/L		
7600676	Dissolved Lead (Pb)	2014/08/18	104	80 - 120	98	80 - 120	<0.20	ug/L		
7600676	Dissolved Manganese (Mn)	2014/08/18	NC	80 - 120	99	80 - 120	<1.0	ug/L		
7600676	Dissolved Molybdenum (Mo)	2014/08/18	NC	80 - 120	93	80 - 120	<1.0	ug/L		
7600676	Dissolved Nickel (Ni)	2014/08/18	104	80 - 120	99	80 - 120	<1.0	ug/L		
7600676	Dissolved Selenium (Se)	2014/08/18	109	80 - 120	97	80 - 120	<0.10	ug/L		
7600676	Dissolved Silicon (Si)	2014/08/18					<100	ug/L		
7600676	Dissolved Silver (Ag)	2014/08/18	111	80 - 120	89	80 - 120	<0.020	ug/L		
7600676	Dissolved Strontium (Sr)	2014/08/18	NC	80 - 120	93	80 - 120	<1.0	ug/L		
7600676	Dissolved Thallium (Tl)	2014/08/18	105	80 - 120	98	80 - 120	<0.050	ug/L		
7600676	Dissolved Tin (Sn)	2014/08/18	115	80 - 120	101	80 - 120	<5.0	ug/L		
7600676	Dissolved Titanium (Ti)	2014/08/18	106	80 - 120	99	80 - 120	<5.0	ug/L		
7600676	Dissolved Uranium (U)	2014/08/18	108	80 - 120	99	80 - 120	<0.10	ug/L		
7600676	Dissolved Vanadium (V)	2014/08/18	112	80 - 120	93	80 - 120	<5.0	ug/L		
7600676	Dissolved Zinc (Zn)	2014/08/18	98	80 - 120	97	80 - 120	<5.0	ug/L		
7600676	Dissolved Zirconium (Zr)	2014/08/18					<0.50	ug/L		
7600707	Dissolved Aluminum (Al)	2014/08/14	108	80 - 120	106	80 - 120	<3.0	ug/L		
7600707	Dissolved Antimony (Sb)	2014/08/14	105	80 - 120	104	80 - 120	<0.50	ug/L		
7600707	Dissolved Arsenic (As)	2014/08/14	107	80 - 120	105	80 - 120	<0.10	ug/L		
7600707	Dissolved Barium (Ba)	2014/08/14	NC	80 - 120	103	80 - 120	<1.0	ug/L		
7600707	Dissolved Beryllium (Be)	2014/08/14	106	80 - 120	99	80 - 120	<0.10	ug/L		
7600707	Dissolved Bismuth (Bi)	2014/08/14	104	80 - 120	108	80 - 120	<1.0	ug/L		
7600707	Dissolved Boron (B)	2014/08/14					<50	ug/L		
7600707	Dissolved Cadmium (Cd)	2014/08/14	106	80 - 120	105	80 - 120	<0.010	ug/L		
7600707	Dissolved Chromium (Cr)	2014/08/14	104	80 - 120	100	80 - 120	<1.0	ug/L		
7600707	Dissolved Cobalt (Co)	2014/08/14	103	80 - 120	101	80 - 120	<0.50	ug/L		
7600707	Dissolved Copper (Cu)	2014/08/14	101	80 - 120	104	80 - 120	<0.20	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7600707	Dissolved Iron (Fe)	2014/08/14	NC	80 - 120	106	80 - 120	<5.0	ug/L		
7600707	Dissolved Lead (Pb)	2014/08/14	102	80 - 120	106	80 - 120	<0.20	ug/L		
7600707	Dissolved Manganese (Mn)	2014/08/14	NC	80 - 120	103	80 - 120	<1.0	ug/L		
7600707	Dissolved Molybdenum (Mo)	2014/08/14	NC	80 - 120	105	80 - 120	<1.0	ug/L		
7600707	Dissolved Nickel (Ni)	2014/08/14	104	80 - 120	103	80 - 120	<1.0	ug/L		
7600707	Dissolved Selenium (Se)	2014/08/14	100	80 - 120	94	80 - 120	<0.10	ug/L		
7600707	Dissolved Silicon (Si)	2014/08/14					<100	ug/L		
7600707	Dissolved Silver (Ag)	2014/08/14	103	80 - 120	103	80 - 120	<0.020	ug/L		
7600707	Dissolved Strontium (Sr)	2014/08/14	NC	80 - 120	106	80 - 120	<1.0	ug/L		
7600707	Dissolved Thallium (Tl)	2014/08/14	94	80 - 120	103	80 - 120	<0.050	ug/L		
7600707	Dissolved Tin (Sn)	2014/08/14	103	80 - 120	105	80 - 120	<5.0	ug/L		
7600707	Dissolved Titanium (Ti)	2014/08/14	108	80 - 120	88	80 - 120	<5.0	ug/L		
7600707	Dissolved Uranium (U)	2014/08/14	99	80 - 120	101	80 - 120	<0.10	ug/L		
7600707	Dissolved Vanadium (V)	2014/08/14	114	80 - 120	99	80 - 120	<5.0	ug/L		
7600707	Dissolved Zinc (Zn)	2014/08/14	117	80 - 120	107	80 - 120	<5.0	ug/L		
7600707	Dissolved Zirconium (Zr)	2014/08/14					<0.50	ug/L		
7604917	Total Aluminum (Al)	2014/08/18	104	80 - 120	113	80 - 120	3.7 ,RDL=3.0	ug/L		
7604917	Total Antimony (Sb)	2014/08/18	106	80 - 120	102	80 - 120	<0.50	ug/L		
7604917	Total Arsenic (As)	2014/08/18	105	80 - 120	104	80 - 120	<0.10	ug/L		
7604917	Total Barium (Ba)	2014/08/18	NC	80 - 120	102	80 - 120	<1.0	ug/L		
7604917	Total Beryllium (Be)	2014/08/18	103	80 - 120	98	80 - 120	<0.10	ug/L		
7604917	Total Bismuth (Bi)	2014/08/18	101	80 - 120	101	80 - 120	<1.0	ug/L		
7604917	Total Boron (B)	2014/08/18					<50	ug/L		
7604917	Total Cadmium (Cd)	2014/08/18	103	80 - 120	105	80 - 120	<0.010	ug/L		
7604917	Total Chromium (Cr)	2014/08/18	107	80 - 120	106	80 - 120	<1.0	ug/L		
7604917	Total Cobalt (Co)	2014/08/18	105	80 - 120	105	80 - 120	<0.50	ug/L		
7604917	Total Copper (Cu)	2014/08/18	106	80 - 120	103	80 - 120	<0.50	ug/L		
7604917	Total Iron (Fe)	2014/08/18	116	80 - 120	105	80 - 120	<10	ug/L		
7604917	Total Lead (Pb)	2014/08/18	105	80 - 120	104	80 - 120	<0.20	ug/L		
7604917	Total Manganese (Mn)	2014/08/18	NC	80 - 120	101	80 - 120	<1.0	ug/L		
7604917	Total Molybdenum (Mo)	2014/08/18	NC	80 - 120	107	80 - 120	<1.0	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7604917	Total Nickel (Ni)	2014/08/18	110	80 - 120	108	80 - 120	<1.0	ug/L		
7604917	Total Selenium (Se)	2014/08/18	100	80 - 120	100	80 - 120	<0.10	ug/L		
7604917	Total Silicon (Si)	2014/08/18					<100	ug/L		
7604917	Total Silver (Ag)	2014/08/18	102	80 - 120	104	80 - 120	0.022 ,RDL=0.020	ug/L		
7604917	Total Strontium (Sr)	2014/08/18	NC	80 - 120	106	80 - 120	<1.0	ug/L		
7604917	Total Thallium (Tl)	2014/08/18	104	80 - 120	97	80 - 120	<0.050	ug/L		
7604917	Total Tin (Sn)	2014/08/18	109	80 - 120	95	80 - 120	<5.0	ug/L		
7604917	Total Titanium (Ti)	2014/08/18	93	80 - 120	95	80 - 120	<5.0	ug/L		
7604917	Total Uranium (U)	2014/08/18	112	80 - 120	107	80 - 120	<0.10	ug/L		
7604917	Total Vanadium (V)	2014/08/18	103	80 - 120	103	80 - 120	<5.0	ug/L		
7604917	Total Zinc (Zn)	2014/08/18	NC	80 - 120	116	80 - 120	<5.0	ug/L		
7604917	Total Zirconium (Zr)	2014/08/18					<0.50	ug/L		
7604948	Total Aluminum (Al)	2014/08/18	103	80 - 120	105	80 - 120	<3.0	ug/L		
7604948	Total Antimony (Sb)	2014/08/18	102	80 - 120	97	80 - 120	<0.50	ug/L		
7604948	Total Arsenic (As)	2014/08/18	101	80 - 120	103	80 - 120	<0.10	ug/L		
7604948	Total Barium (Ba)	2014/08/18	103	80 - 120	101	80 - 120	<1.0	ug/L		
7604948	Total Beryllium (Be)	2014/08/18	105	80 - 120	104	80 - 120	<0.10	ug/L		
7604948	Total Bismuth (Bi)	2014/08/18	99	80 - 120	95	80 - 120	<1.0	ug/L		
7604948	Total Boron (B)	2014/08/18					<50	ug/L		
7604948	Total Cadmium (Cd)	2014/08/18	102	80 - 120	98	80 - 120	<0.010	ug/L		
7604948	Total Chromium (Cr)	2014/08/18	98	80 - 120	94	80 - 120	<1.0	ug/L		
7604948	Total Cobalt (Co)	2014/08/18	94	80 - 120	94	80 - 120	<0.50	ug/L		
7604948	Total Copper (Cu)	2014/08/18	95	80 - 120	93	80 - 120	<0.50	ug/L		
7604948	Total Iron (Fe)	2014/08/18	NC	80 - 120	102	80 - 120	<10	ug/L		
7604948	Total Lead (Pb)	2014/08/18	99	80 - 120	97	80 - 120	<0.20	ug/L		
7604948	Total Manganese (Mn)	2014/08/18	94	80 - 120	97	80 - 120	<1.0	ug/L		
7604948	Total Molybdenum (Mo)	2014/08/18	96	80 - 120	97	80 - 120	<1.0	ug/L		
7604948	Total Nickel (Ni)	2014/08/18	93	80 - 120	96	80 - 120	<1.0	ug/L		
7604948	Total Selenium (Se)	2014/08/18	103	80 - 120	97	80 - 120	<0.10	ug/L		
7604948	Total Silicon (Si)	2014/08/18					<100	ug/L		
7604948	Total Silver (Ag)	2014/08/18	104	80 - 120	87	80 - 120	<0.020	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7604948	Total Strontium (Sr)	2014/08/18	NC	80 - 120	104	80 - 120	<1.0	ug/L		
7604948	Total Thallium (Tl)	2014/08/18	96	80 - 120	97	80 - 120	<0.050	ug/L		
7604948	Total Tin (Sn)	2014/08/18	102	80 - 120	99	80 - 120	<5.0	ug/L		
7604948	Total Titanium (Ti)	2014/08/18	95	80 - 120	98	80 - 120	<5.0	ug/L		
7604948	Total Uranium (U)	2014/08/18	96	80 - 120	93	80 - 120	<0.10	ug/L		
7604948	Total Vanadium (V)	2014/08/18	94	80 - 120	91	80 - 120	<5.0	ug/L		
7604948	Total Zinc (Zn)	2014/08/18	102	80 - 120	94	80 - 120	<5.0	ug/L		
7604948	Total Zirconium (Zr)	2014/08/18					<0.50	ug/L		
7606158	Total Aluminum (Al)	2014/08/19	95	80 - 120	98	80 - 120	11 ,RDL=10	ug/L	NC (2)	20
7606158	Total Antimony (Sb)	2014/08/19	107	80 - 120	92	80 - 120	<0.50	ug/L	NC	20
7606158	Total Arsenic (As)	2014/08/19	NC	80 - 120	94	80 - 120	0.13 ,RDL=0.10	ug/L	11.0	20
7606158	Total Barium (Ba)	2014/08/19	102	80 - 120	89	80 - 120	<1.0	ug/L	NC	20
7606158	Total Beryllium (Be)	2014/08/19	97	80 - 120	88	80 - 120	<0.10	ug/L	NC	20
7606158	Total Bismuth (Bi)	2014/08/19	105	80 - 120	90	80 - 120	<1.0	ug/L	NC	20
7606158	Total Boron (B)	2014/08/19					<50	ug/L	NC	20
7606158	Total Cadmium (Cd)	2014/08/19	99	80 - 120	88	80 - 120	<0.010	ug/L	NC	20
7606158	Total Chromium (Cr)	2014/08/19	106	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7606158	Total Cobalt (Co)	2014/08/19	103	80 - 120	93	80 - 120	<0.50	ug/L	NC	20
7606158	Total Copper (Cu)	2014/08/19	100	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7606158	Total Iron (Fe)	2014/08/19	99	80 - 120	98	80 - 120	<10	ug/L	NC	20
7606158	Total Lead (Pb)	2014/08/19	101	80 - 120	89	80 - 120	<0.20	ug/L	NC	20
7606158	Total Manganese (Mn)	2014/08/19	94	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7606158	Total Molybdenum (Mo)	2014/08/19	NC	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
7606158	Total Nickel (Ni)	2014/08/19	105	80 - 120	91	80 - 120	<1.0	ug/L	NC	20
7606158	Total Selenium (Se)	2014/08/19	103	80 - 120	97	80 - 120	<0.10	ug/L	11.8	20
7606158	Total Silicon (Si)	2014/08/19					<100	ug/L	3.0	20
7606158	Total Silver (Ag)	2014/08/19	90	80 - 120	80	80 - 120	<0.020	ug/L	NC	20
7606158	Total Strontium (Sr)	2014/08/19	NC	80 - 120	86	80 - 120	<1.0	ug/L	1.3	20
7606158	Total Thallium (Tl)	2014/08/19	97	80 - 120	84	80 - 120	<0.050	ug/L	NC	20
7606158	Total Tin (Sn)	2014/08/19	103	80 - 120	107	80 - 120	<5.0	ug/L	NC	20
7606158	Total Titanium (Ti)	2014/08/19	115	80 - 120	119	80 - 120	<5.0	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7606158	Total Uranium (U)	2014/08/19	101	80 - 120	88	80 - 120	<0.10	ug/L	1.6	20
7606158	Total Vanadium (V)	2014/08/19	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7606158	Total Zinc (Zn)	2014/08/19	NC	80 - 120	121 (1)	80 - 120	<5.0	ug/L	NC	20
7606158	Total Zirconium (Zr)	2014/08/19					<0.50	ug/L	NC	20
7606325	Total Aluminum (Al)	2014/08/19	104	80 - 120	107	80 - 120	<3.0	ug/L	NC	20
7606325	Total Antimony (Sb)	2014/08/19	99	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
7606325	Total Arsenic (As)	2014/08/19	NC	80 - 120	95	80 - 120	<0.10	ug/L	0.5	20
7606325	Total Barium (Ba)	2014/08/19	NC	80 - 120	95	80 - 120	<1.0	ug/L	0.9	20
7606325	Total Beryllium (Be)	2014/08/19	102	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
7606325	Total Bismuth (Bi)	2014/08/19	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7606325	Total Boron (B)	2014/08/19					<50	ug/L	NC	20
7606325	Total Cadmium (Cd)	2014/08/19	100	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
7606325	Total Chromium (Cr)	2014/08/19	101	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
7606325	Total Cobalt (Co)	2014/08/19	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7606325	Total Copper (Cu)	2014/08/19	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7606325	Total Iron (Fe)	2014/08/19	104	80 - 120	103	80 - 120	<10	ug/L	NC	20
7606325	Total Lead (Pb)	2014/08/19	100	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
7606325	Total Manganese (Mn)	2014/08/19	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
7606325	Total Molybdenum (Mo)	2014/08/19	NC	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7606325	Total Nickel (Ni)	2014/08/19	104	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
7606325	Total Selenium (Se)	2014/08/19	99	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
7606325	Total Silicon (Si)	2014/08/19					<100	ug/L	2.7	20
7606325	Total Silver (Ag)	2014/08/19	103	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
7606325	Total Strontium (Sr)	2014/08/19	NC	80 - 120	97	80 - 120	<1.0	ug/L	0.9	20
7606325	Total Thallium (Tl)	2014/08/19	100	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
7606325	Total Tin (Sn)	2014/08/19	103	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7606325	Total Titanium (Ti)	2014/08/19	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7606325	Total Uranium (U)	2014/08/19	104	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
7606325	Total Vanadium (V)	2014/08/19	104	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
7606325	Total Zinc (Zn)	2014/08/19	114	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
7606325	Total Zirconium (Zr)	2014/08/19					<0.50	ug/L	NC	20

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Maxxam Job #: B468478
Report Date: 2014/08/21

QUALITY ASSURANCE REPORT(CONT'D)

DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Blank Spike outside acceptance criteria (10% of analytes failure allowed).

(2) Blank outside acceptance criteria, detection limit adjusted accordingly.

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DILLON CONSULTING LTD.
Client Project #: LH MINE
Your P.O. #: 149882
Sampler Initials: SK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, Data Validation Coordinator

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-Free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

Chain Of Custody Record

Page 1 of 1

INVOICE INFORMATION:		Report Information		Project Information		Laboratory Use Only	
Company Name	#15986 DILLON CONSULTING LTD.	Company Name		Quotation #	B40134	Maxxam Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Richard Pope / Stacie Kalyn.	P.O. #	149882	B468478	445077
Address	510 - 3820 CESSNA DRIVE Richmond BC V7B 0A2	Address		Project #		Chain Of Custody Record	Project Manager
Phone	(604) 278-7847 Fax: (604) 278-7894	Phone	Fax:	Project Name	LH Mine	C#445077-01-01	Crystal Ireland
Email	ctorres@dillon.ca; rvanderhorst@dillon.ca	Email	rpope@dillon.ca / skalyn@dillon.ca	Site #			
				Sampled By	S. Kalyn		

Regulatory Criteria:
- [ ] CSR
- [x] CCME
- [x] BC Water Quality
- [ ] Other

Special Instructions

* Dissolved metals & dissolved merc were NOT field filtered or preserved Requires lab filter & preservation

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: ✓
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	CSR Dissolved Metals in Water with CV Hg	CSR Total Metals in Water with CV Hg	High Level Anions Package	Phosphorus-P (Tot. diss.) - unfiltered	Ammonia-N (Preserved)	Carbon (Total Organic)	Alkalinity - Water	Conductance - water	Total Suspended Solids	Total Dissolved Solids (Filt. Residue)	# of Bottles	Comments
1	KH5179	F1	Aug. 7/14	1735	H_2O	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
2	KH5180	F2		1312		N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
3	KH5181	F3		1424		N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
4	KH5182	F4		1454		N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
5	KH5183	B1		1655		N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
6	KH5184	F1-D		1745		N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7	
7																		
8																		
9																		
10																		

B468478

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
S. Kalyn	14/08/08	1047	DARIA IVANOVA	2014/08/08	14:05		☐	8,10,8	☐ Yes ☑ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

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